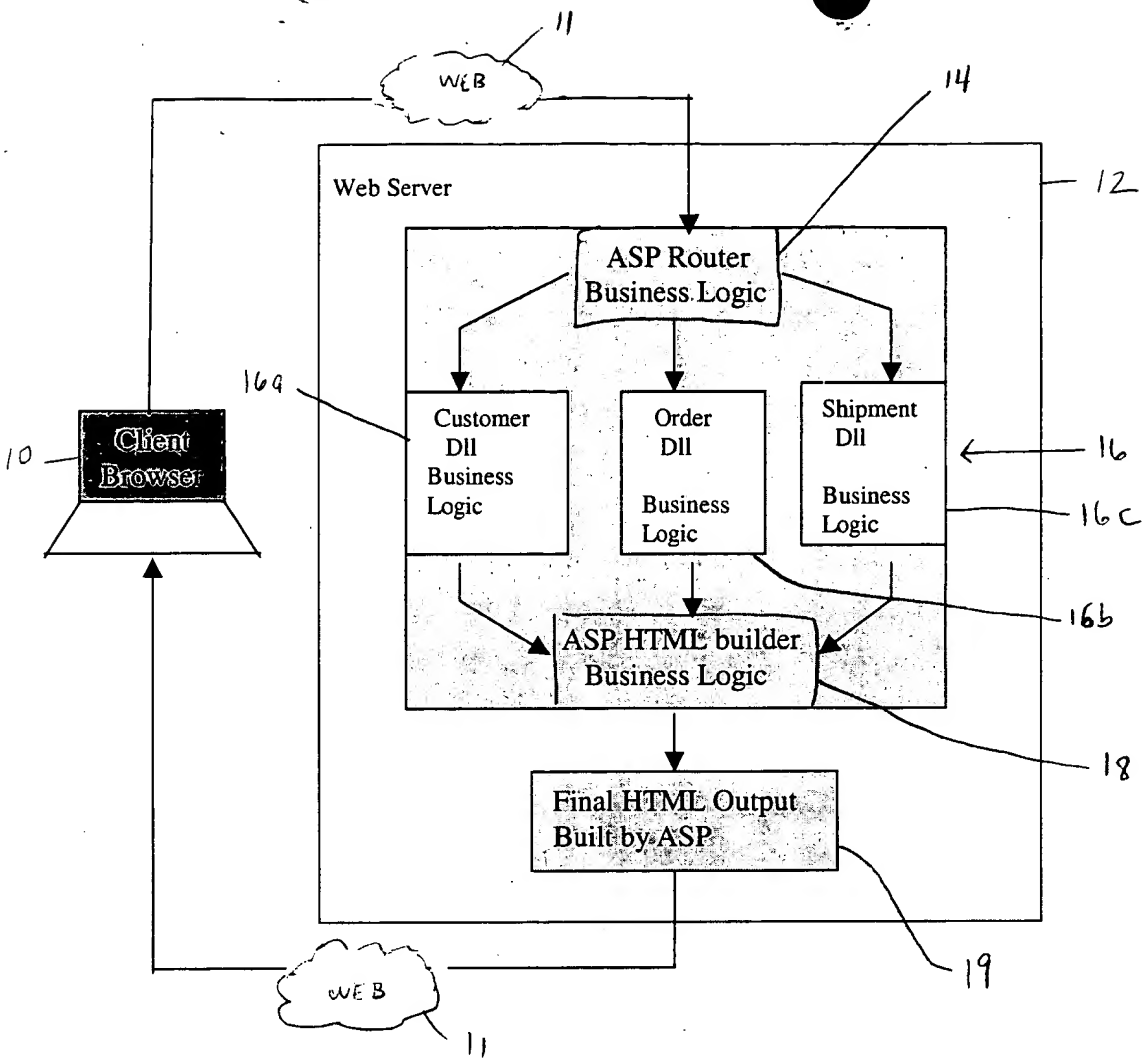


FIG. 1

(PRIOR ART)

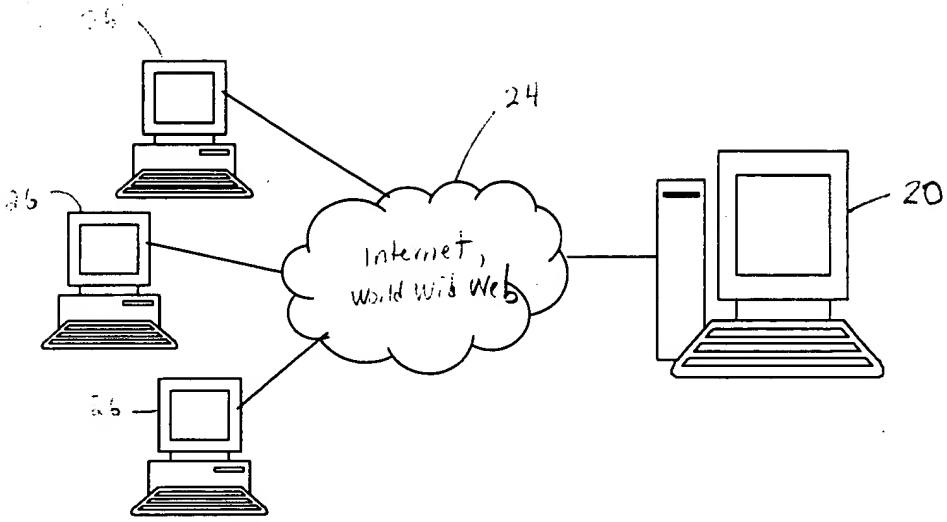


FIG. 2

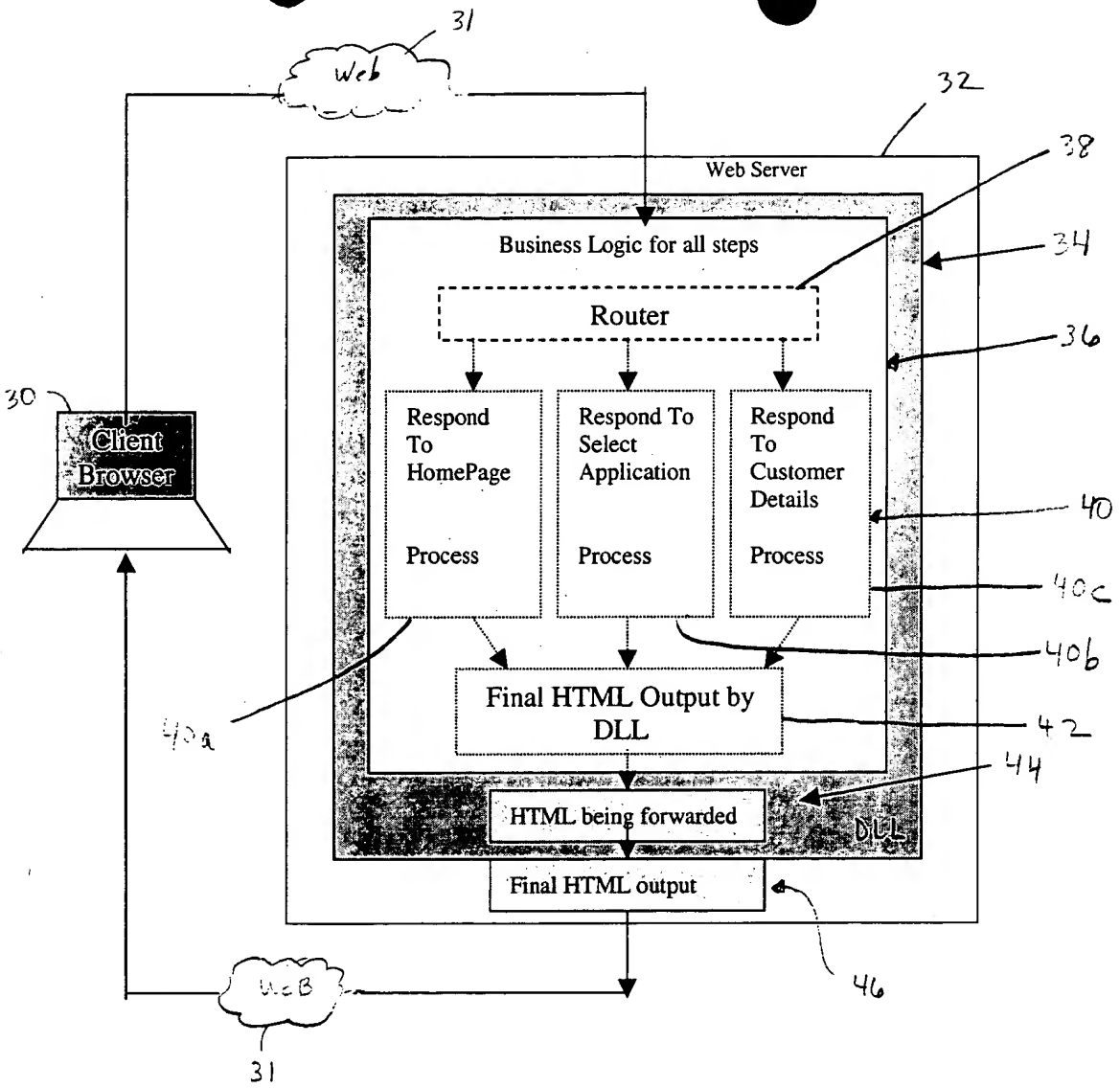

Web
31
32
Web Server
38
Business Logic for all steps
34
Router
36
30
Client Browser
Respond To HomePage Process
Respond To Select Application Process
Respond To Customer Details Process
40
40c
40b
40a
Final HTML Output by DLL
42
44
HTML being forwarded
DLL
Final HTML output
46
Web
31

FIG. 3

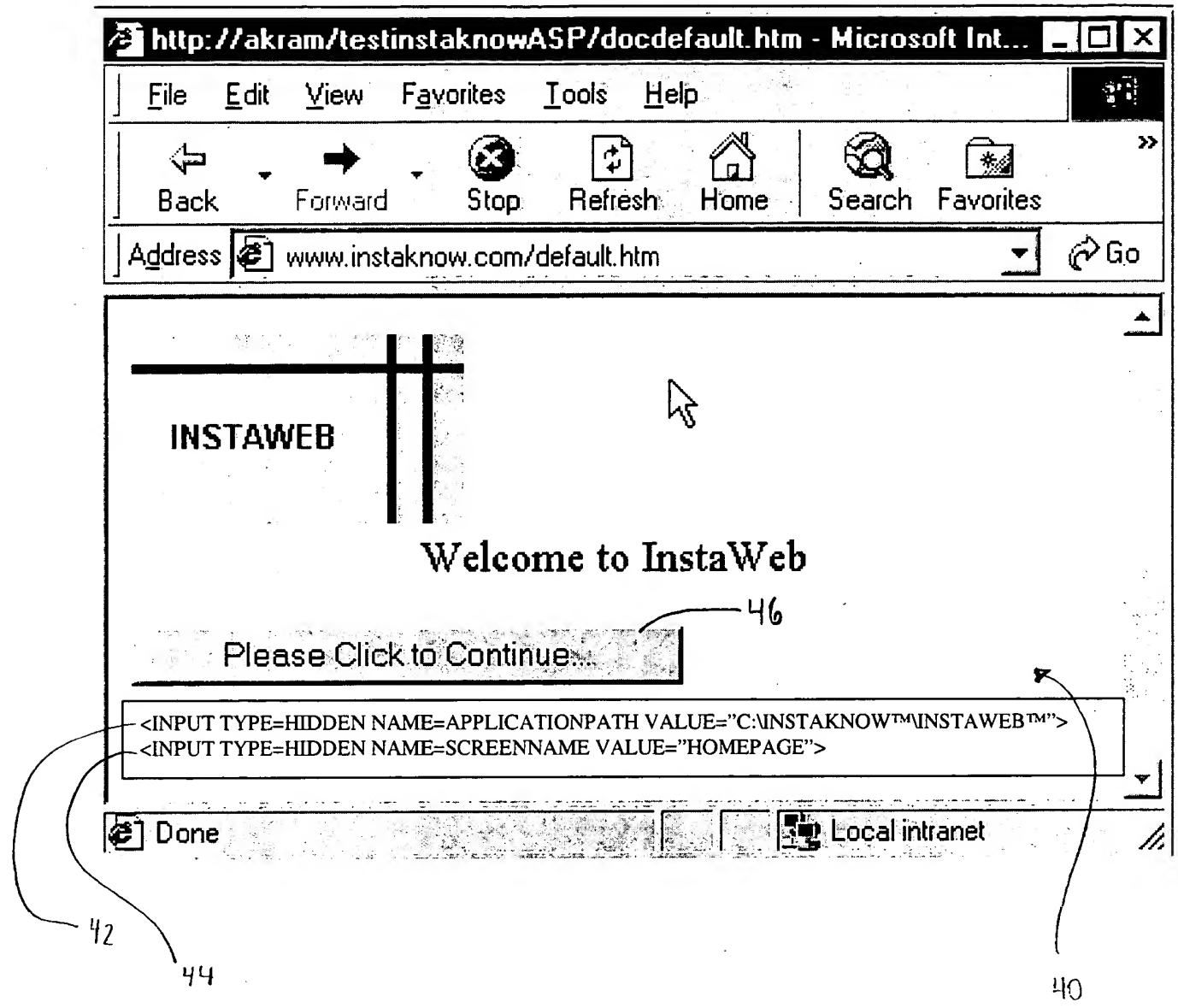

http://akram/testinstaknowASP/docdefault.htm - Microsoft Int...
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites
Address www.instaknow.com/default.htm
Go
INSTAWEB
Welcome to InstaWeb
Please Click to Continue...
<INPUT TYPE=HIDDEN NAME=APPLICATIONPATH VALUE="C:\INSTAKNOW™\INSTAWEB™">
<INPUT TYPE=HIDDEN NAME=SCREENNAME VALUE="HOMEPAGE">
Done
Local intranet
46
42
44
40

FIG. 4

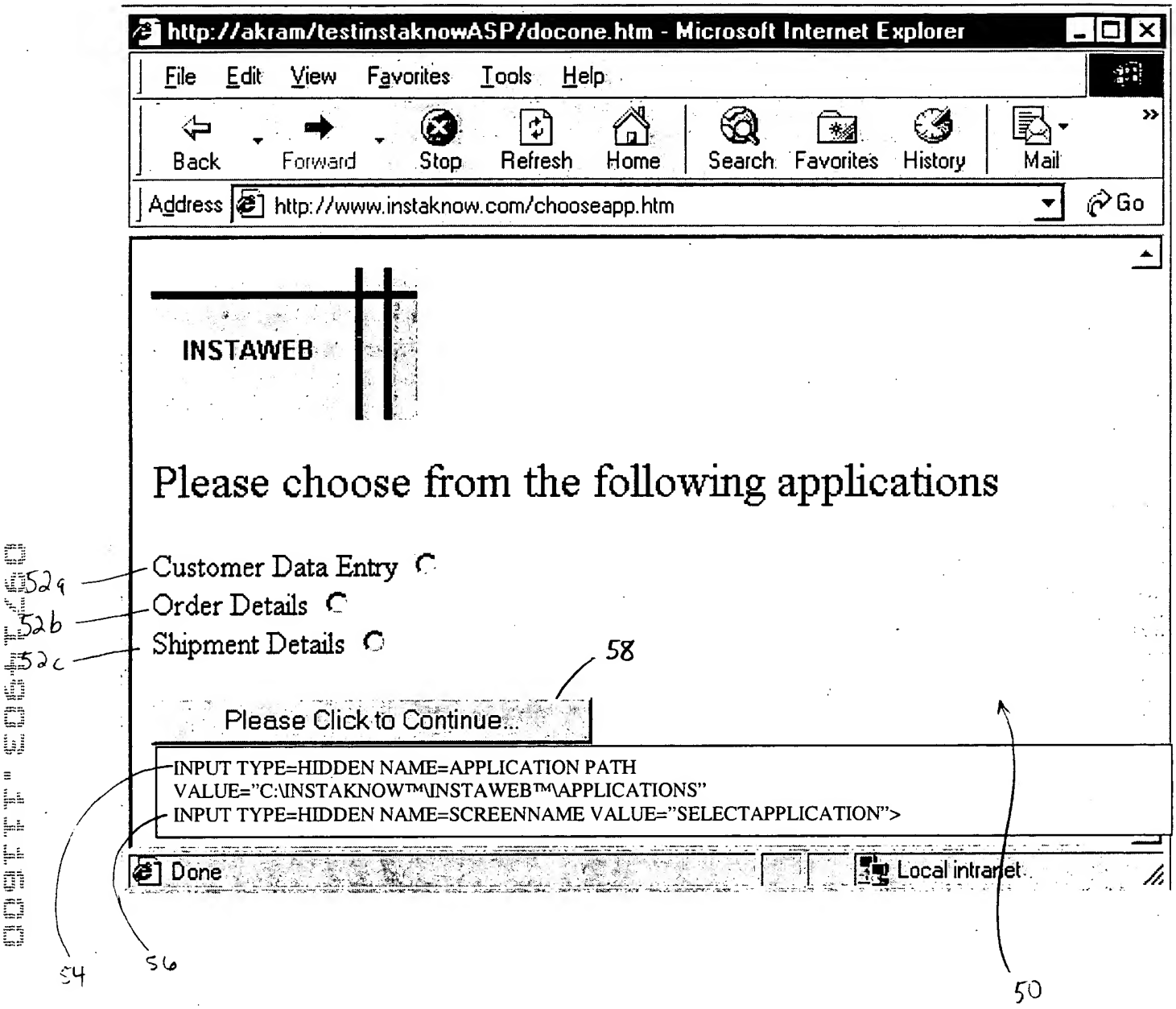

http://akram/testinstaknowASP/docone.htm - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail
Address http://www.instaknow.com/chooseapp.htm
Go
INSTAWEB
Please choose from the following applications
Customer Data Entry
Order Details
Shipment Details
52a
52b
52c
58
Please Click to Continue...
INPUT TYPE=HIDDEN NAME=APPLICATION PATH
VALUE="C:\INSTAKNOW™\INSTAWEB™\APPLICATIONS"
INPUT TYPE=HIDDEN NAME=SCREENNAME VALUE="SELECTAPPLICATION">
Done
Local intranet
54
56
50

FIG. 5

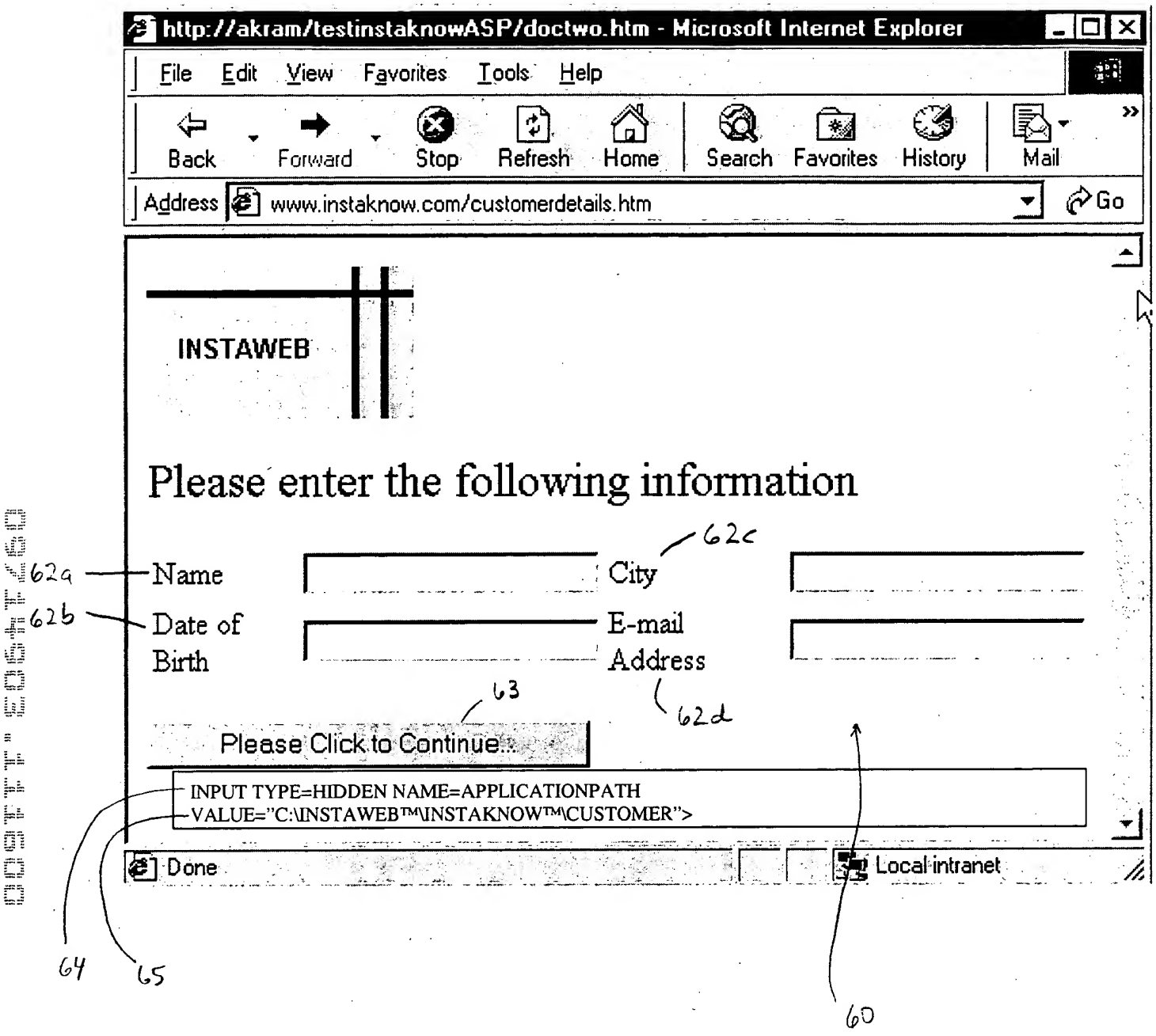

http://akram/testinstaknowASP/doctwo.htm - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail
Address www.instaknow.com/customerdetails.htm
Go
INSTAWEB
Please enter the following information
62a
Name
62b
Date of Birth
62c
City
E-mail Address
62d
63
Please Click to Continue...
INPUT TYPE=HIDDEN NAME=APPLICATIONPATH
VALUE="C:\INSTAWEB™\INSTAKNOW™\CUSTOMER">
Done
Local intranet
64
65
60

FIG. 6

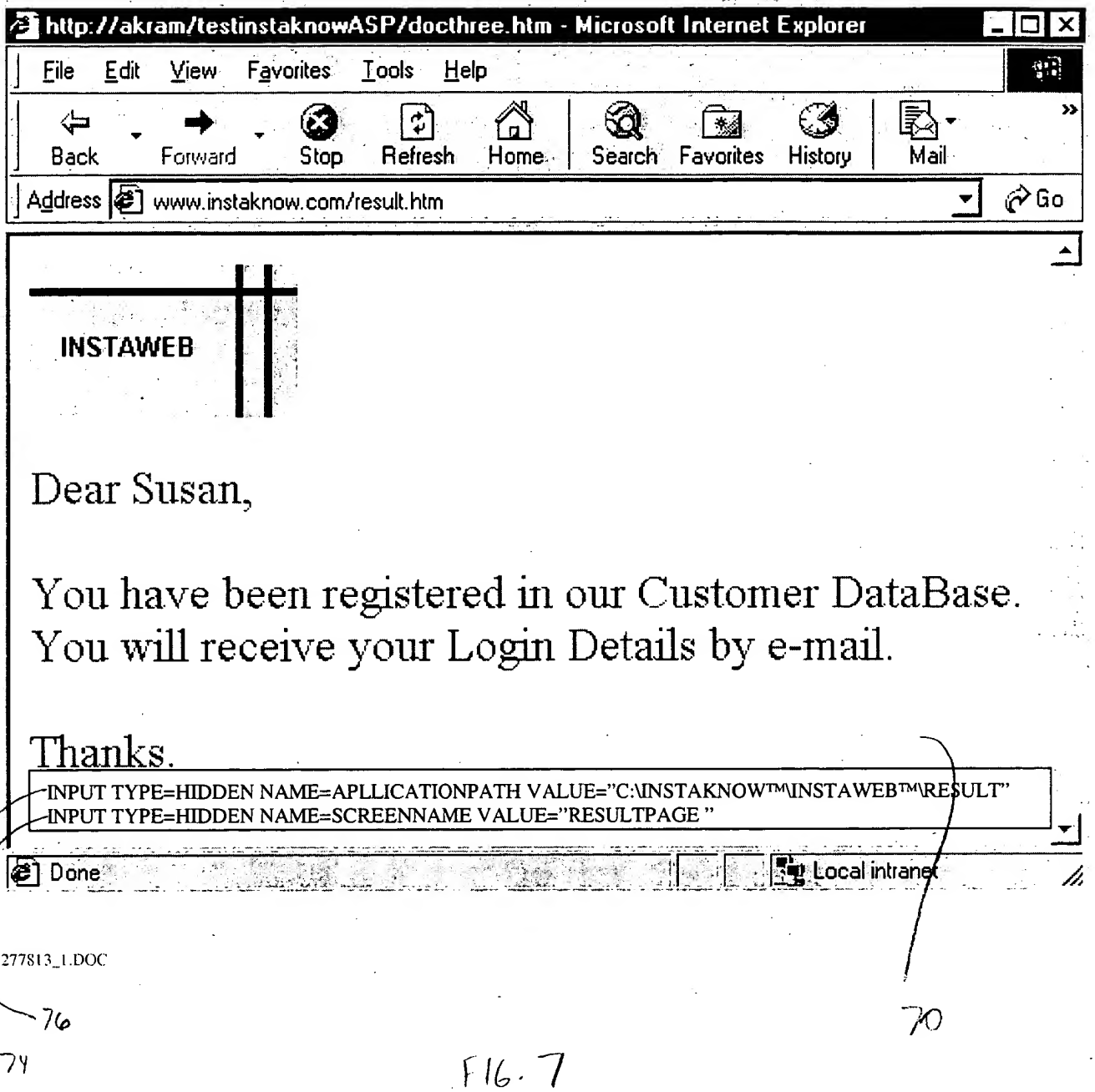

http://akram/testinstaknowASP/docthree.htm - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail
Address www.instaknow.com/result.htm
Go
INSTAWEB
Dear Susan,
You have been registered in our Customer DataBase.
You will receive your Login Details by e-mail.
Thanks.
INPUT TYPE=HIDDEN NAME=APLLICATIONPATH VALUE="C:\INSTAKNOW™\INSTAWEB™\RESULT"
INPUT TYPE=HIDDEN NAME=SCREENNAME VALUE="RESULTPAGE "
Done
Local intranet
277813_1.DOC
76
70
74

FIG. 7

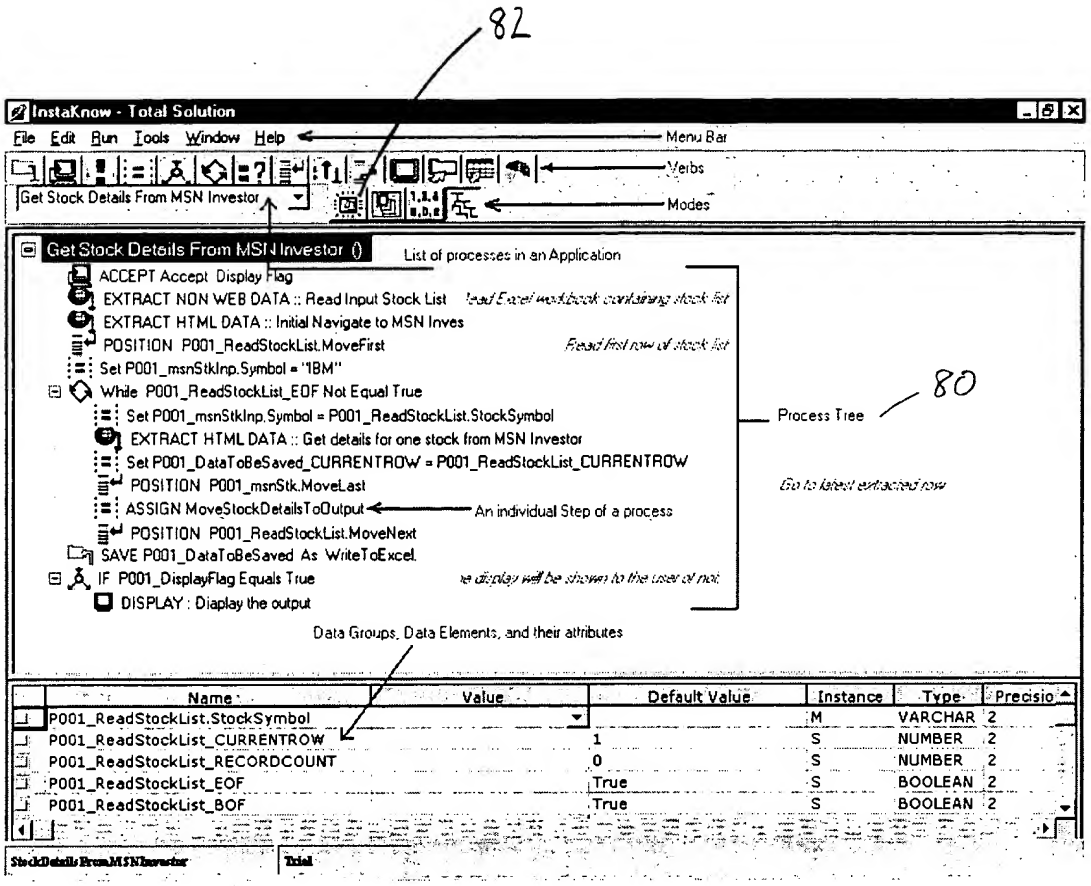

82
InstaKnow - Total Solution
File Edit Run Tools Window Help
Menu Bar
Verbs
Get Stock Details From MSN Investor
Modes
Get Stock Details From MSN Investor ()
List of processes in an Application
ACCEPT Accept Display Flag
EXTRACT NON WEB DATA :: Read Input Stock List
EXTRACT HTML DATA :: Initial Navigate to MSN Inves
POSITION P001_ReadStockList.MoveFirst
Set P001_msnStkInp.Symbol = "IBM"
While P001_ReadStockList_EOF Not Equal True
Set P001_msnStkInp.Symbol = P001_ReadStockList.StockSymbol
EXTRACT HTML DATA :: Get details for one stock from MSN Investor
Set P001_DataToBeSaved_CURRENTROW = P001_ReadStockList_CURRENTROW
POSITION P001_msnStk.MoveLast
ASSIGN MoveStockDetailsToOutput
An individual Step of a process
POSITION P001_ReadStockList.MoveNext
SAVE P001_DataToBeSaved As WriteToExcel
IF P001_DisplayFlag Equals True
DISPLAY : Diaplay the output
Process Tree
80
Data Groups, Data Elements, and their attributes
Name
Value
Default Value
Instance
Type
Precisio
P001_ReadStockList.StockSymbol
M
VARCHAR
2
P001_ReadStockList_CURRENTROW
1
S
NUMBER
2
P001_ReadStockList_RECORDCOUNT
0
S
NUMBER
2
P001_ReadStockList_EOF
True
S
BOOLEAN
2
P001_ReadStockList_BOF
True
S
BOOLEAN
2

FIG. 8

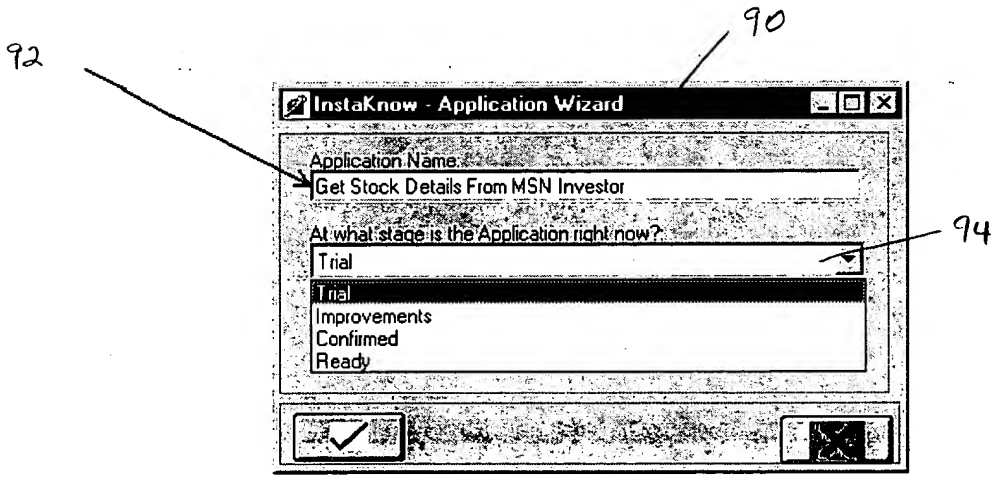

92
90
InstaKnow - Application Wizard
Application Name:
Get Stock Details From MSN Investor
At what stage is the Application right now?
94
Trial
Trial
Improvements
Confirmed
Ready

FIG. 9

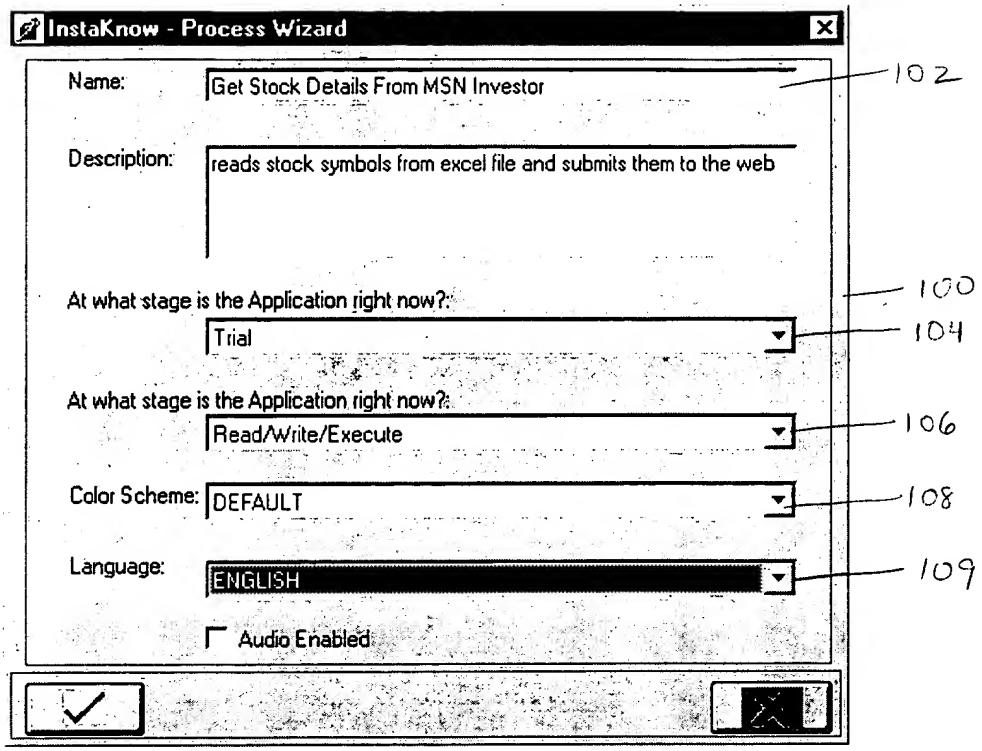

InstaKnow - Process Wizard
Name:
Get Stock Details From MSN Investor
Description:
reads stock symbols from excel file and submits them to the web
At what stage is the Application right now?:
Trial
At what stage is the Application right now?:
Read/Write/Execute
Color Scheme:
DEFAULT
Language:
ENGLISH
Audio Enabled
102
100
104
106
108
109

FIG. 10

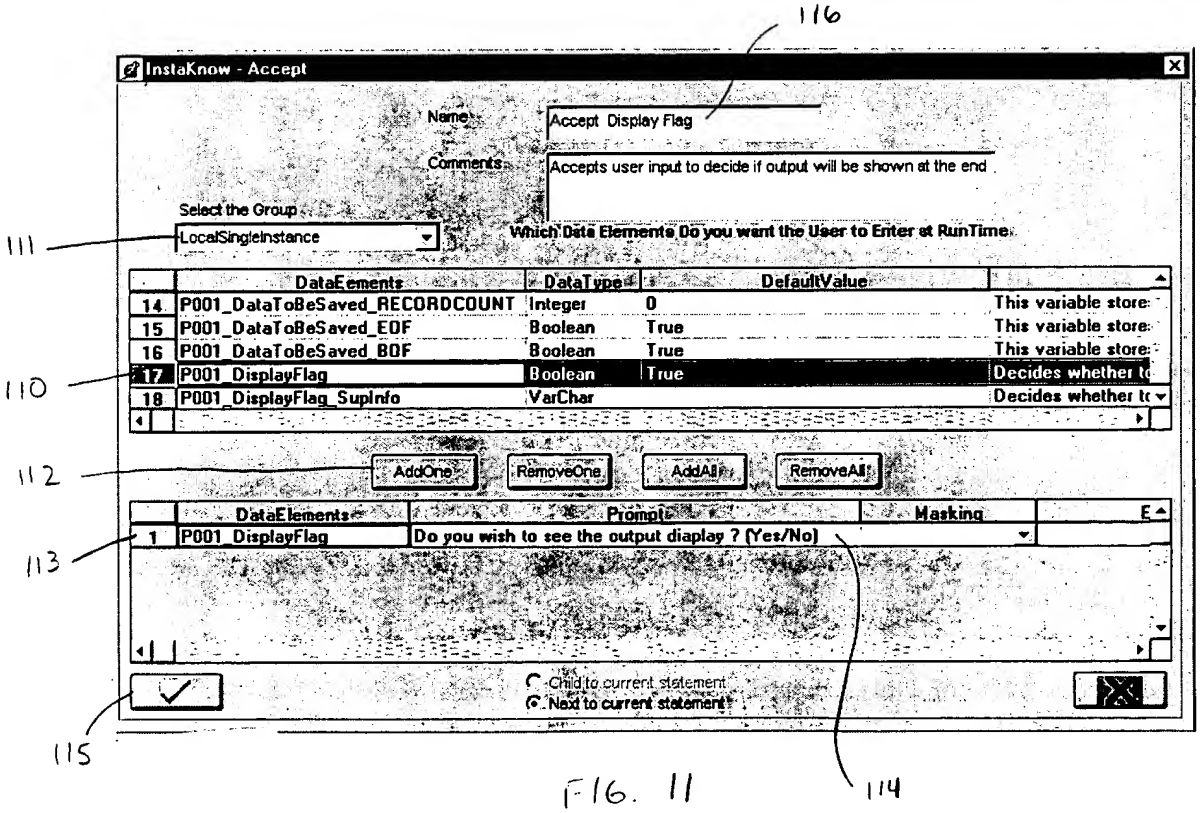

InstaKnow - Accept
Name
Accept Display Flag
Comments
Accepts user input to decide if output will be shown at the end
Select the Group
LocalSingleInstance
Which Data Elements Do you want the User to Enter at RunTime
DataEements
DataType
DefaultValue
14 P001_DataToBeSaved_RECORDCOUNT Integer 0 This variable store
15 P001_DataToBeSaved_EOF Boolean True This variable store
16 P001_DataToBeSaved_BOF Boolean True This variable store
17 P001_DisplayFlag Boolean True Decides whether t
18 P001_DisplayFlag_SupInfo VarChar Decides whether t
AddOne
RemoveOne
AddAll
RemoveAll
DataElements
Prompt
Masking
1 P001_DisplayFlag Do you wish to see the output diaplay ? (Yes/No)
Child to current statement
Next to current statement
116
111
110
112
113
115
114

FIG. 11

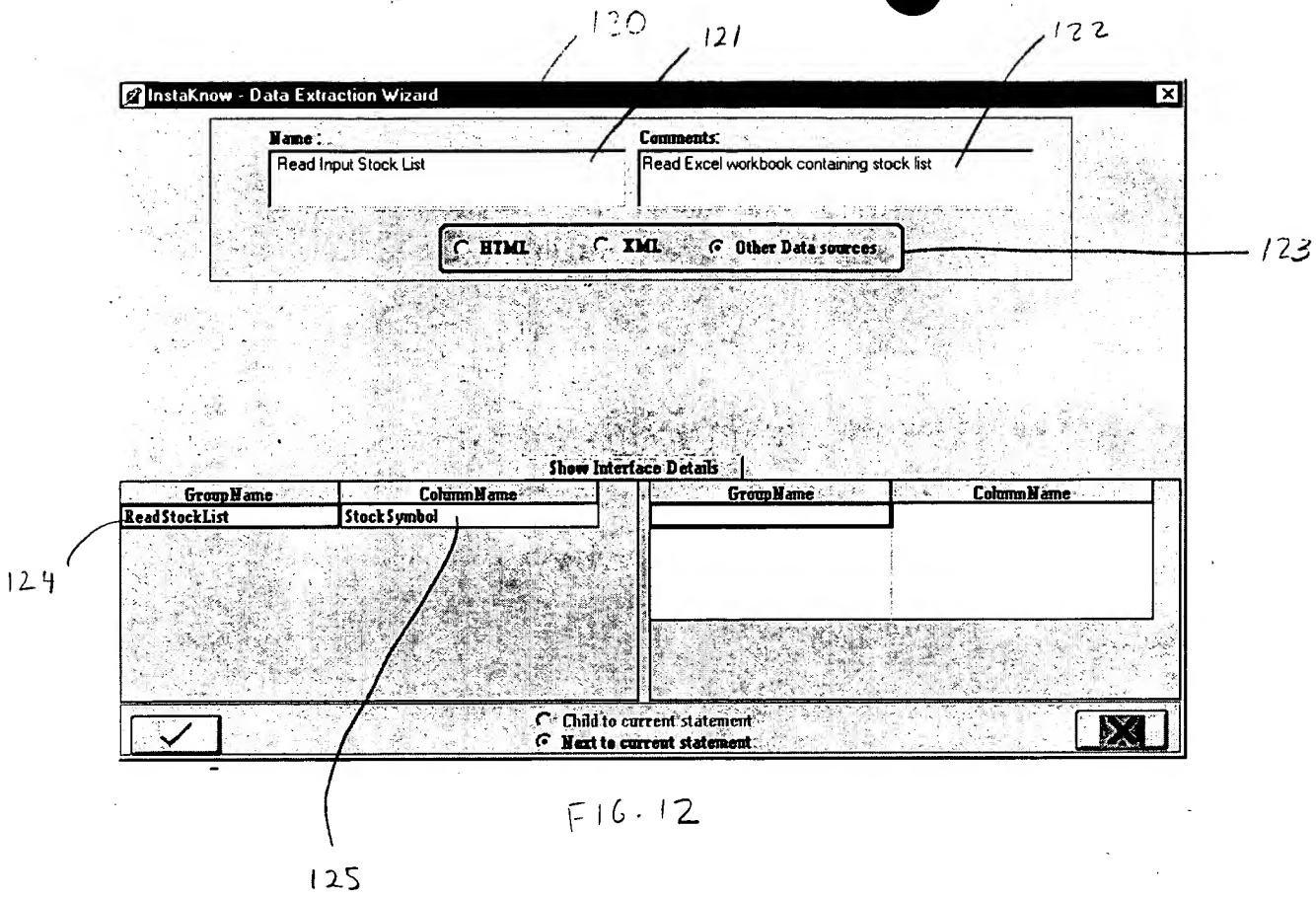

120
121
122
InstaKnow - Data Extraction Wizard
Name :
Read Input Stock List
Comments:
Read Excel workbook containing stock list
HTML
XML
Other Data sources
123
Show Interface Details
GroupName
ColumnName
ReadStockList
Stock Symbol
GroupName
ColumnName
124
Child to current statement
Next to current statement
125

FIG. 12

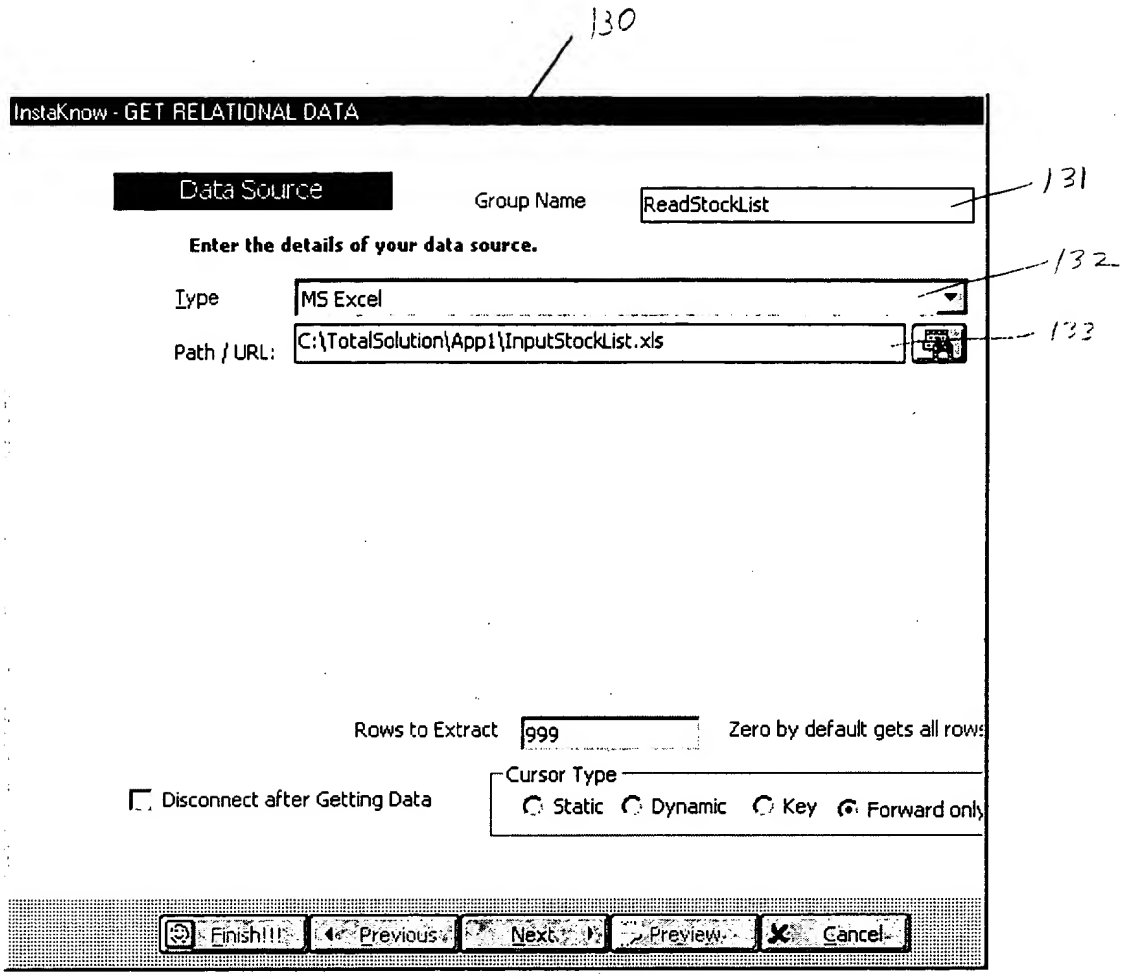

130
InstaKnow - GET RELATIONAL DATA
Data Source
Group Name
ReadStockList
131
Enter the details of your data source.
132
Type
MS Excel
Path / URL:
C:\TotalSolution\App1\InputStockList.xls
133
Rows to Extract
999
Zero by default gets all rows
Disconnect after Getting Data
Cursor Type
Static
Dynamic
Key
Forward only
Finish!!!
Previous
Next
Preview
Cancel

FIG. 13

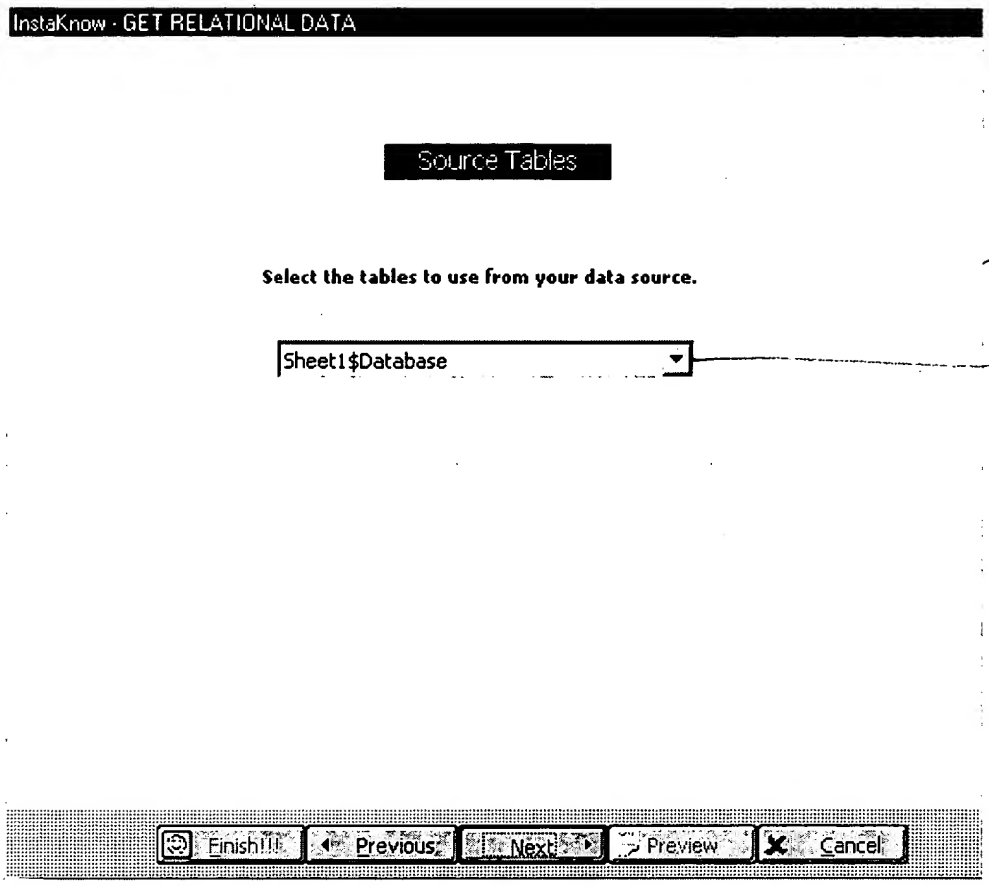

InstaKnow - GET RELATIONAL DATA
Source Tables
Select the tables to use from your data source.
140
Sheet1$Database
112
Finish!!!
Previous
Next
Preview
Cancel

FIG. 14

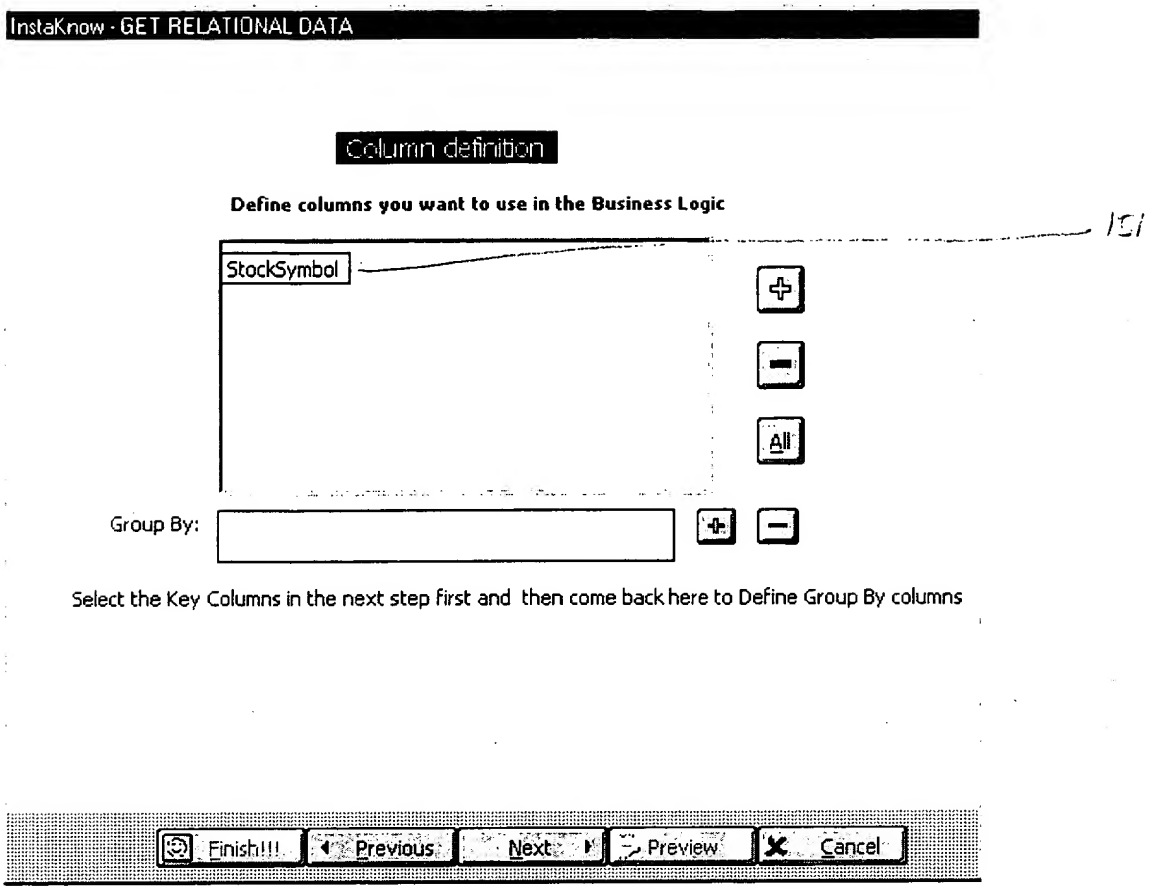

InstaKnow - GET RELATIONAL DATA
Column definition
Define columns you want to use in the Business Logic
151
StockSymbol
All
Group By:
Select the Key Columns in the next step first and then come back here to Define Group By columns
Finish!!!
Previous
Next
Preview
Cancel

FIG. 15

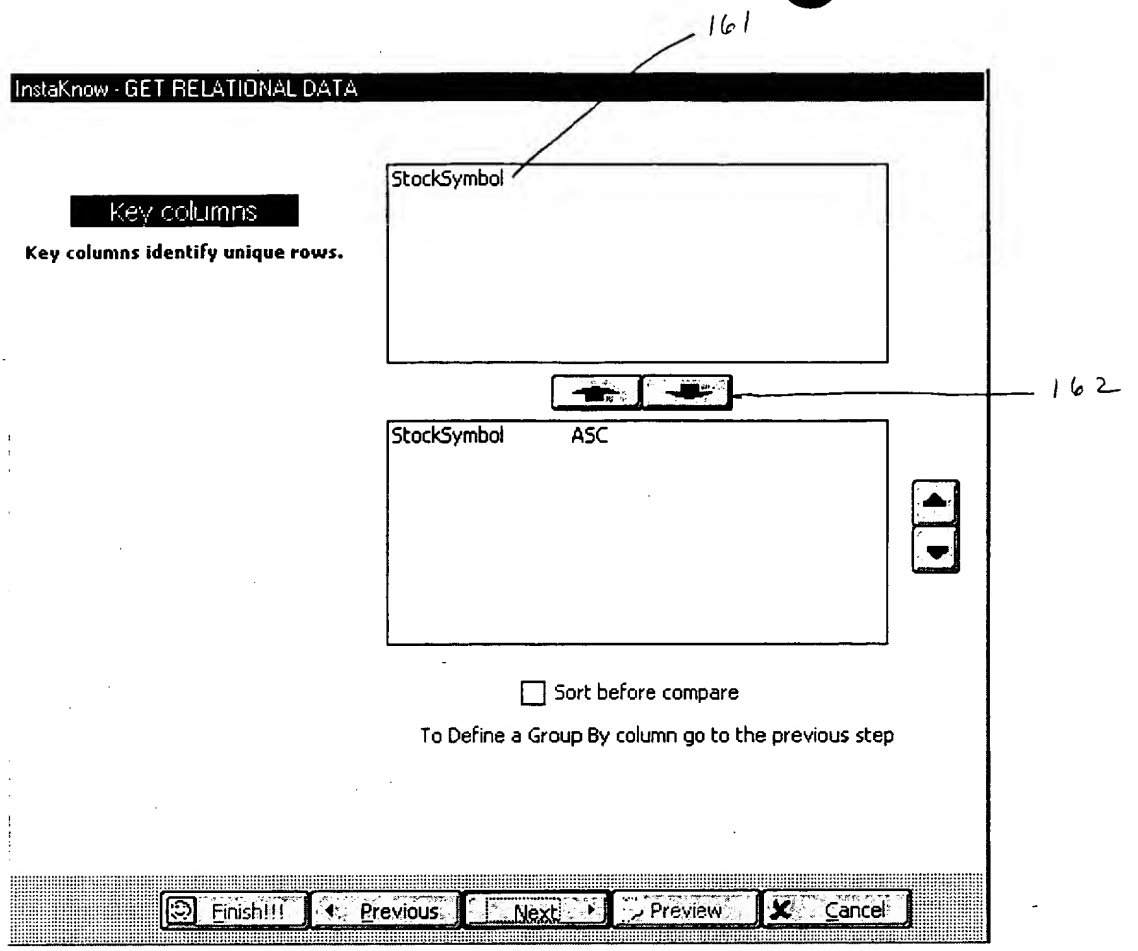
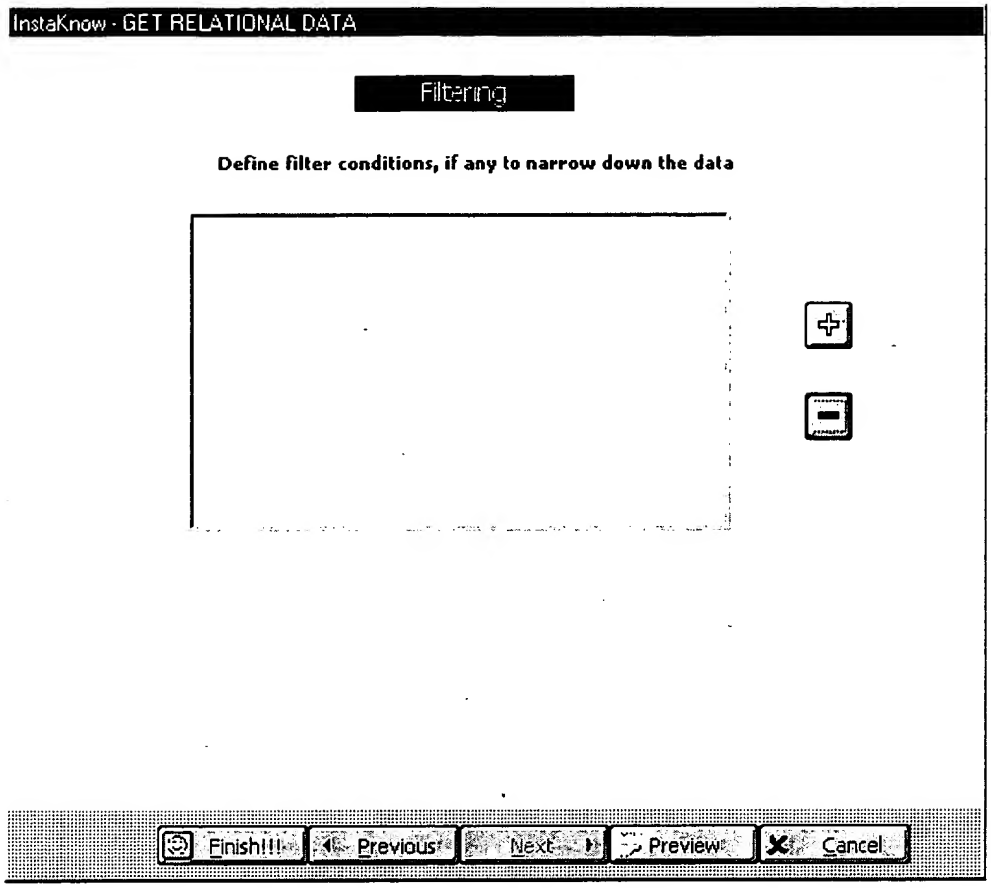


FIG. 16

Doc#:US6154744A



F16.17

Docket: 5050-P-2000

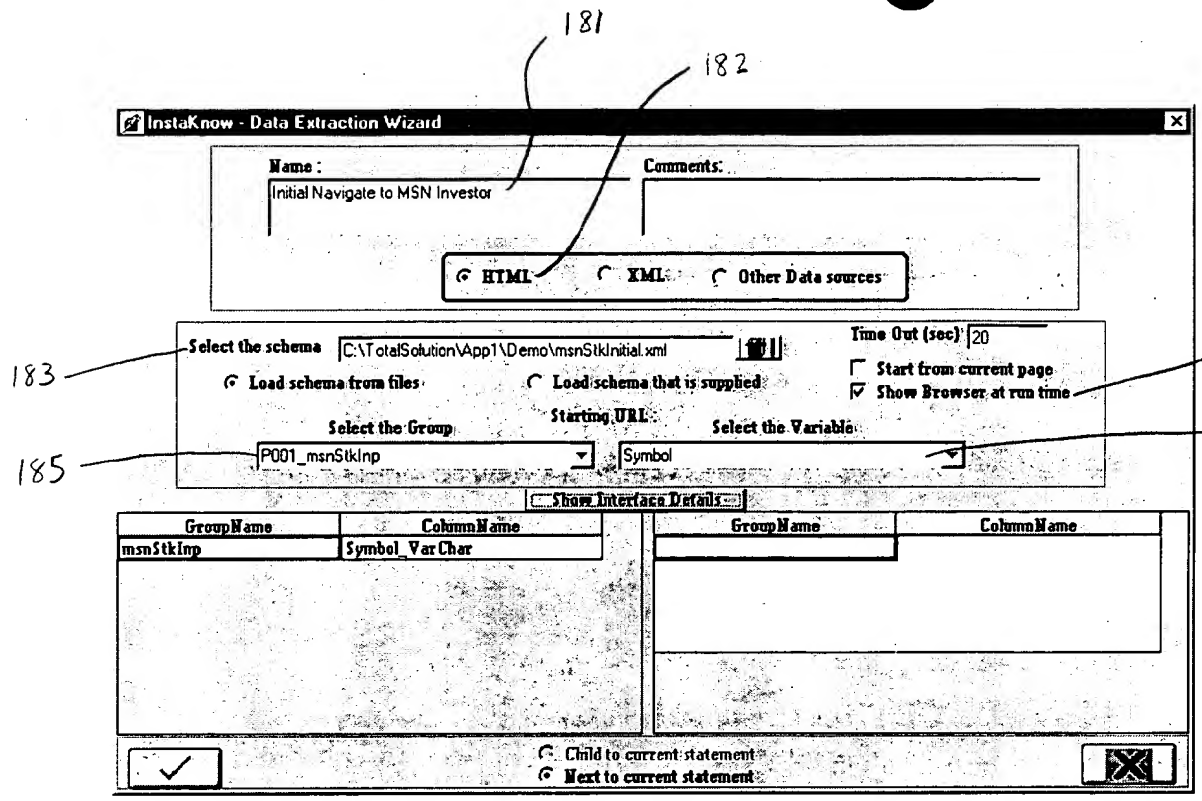

181
182
InstaKnow - Data Extraction Wizard
Name :
Initial Navigate to MSN Investor
Comments:
HTML
XML
Other Data sources
183
Select the schema
C:\TotalSolution\App1\Demo\msnStkInitial.xml
Time Out (sec)
20
Load schema from files
Load schema that is supplied
Start from current page
Show Browser at run time
184
Select the Group
Starting URL
Select the Variable
185
P001_msnStkInp
Symbol
186
Show Interface Details
GroupName
ColumnName
msnStkInp
Symbol_VarChar
GroupName
ColumnName
Child to current statement
Next to current statement

FIG. 18

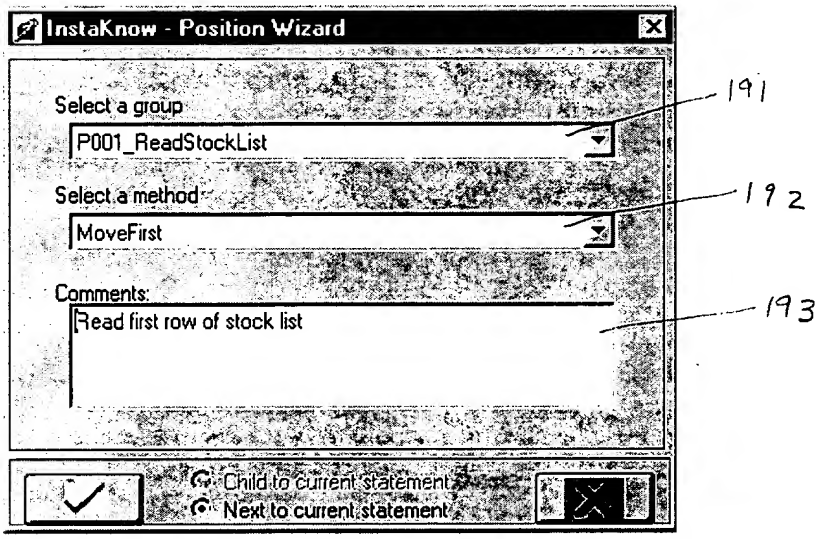

InstaKnow - Position Wizard
Select a group
P001_ReadStockList
191
Select a method
MoveFirst
192
Comments:
Read first row of stock list
193
Child to current statement
Next to current statement

FIG. 19

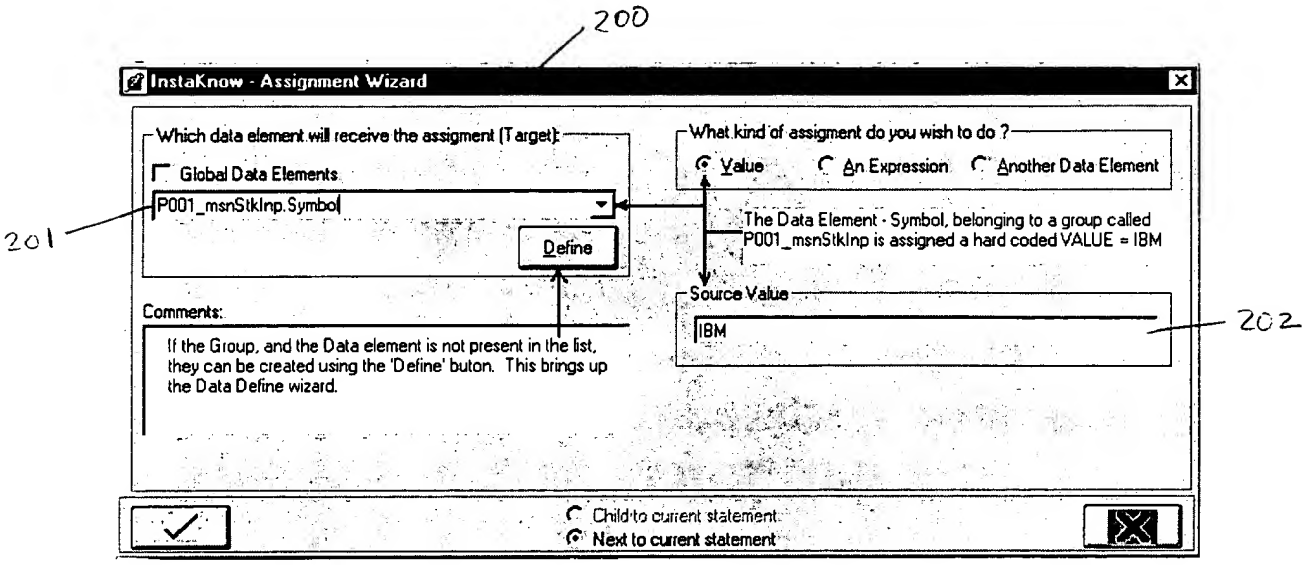

200
InstaKnow - Assignment Wizard
Which data element will receive the assigment (Target):
Global Data Elements
P001_msnStkInp.Symbol
Define
201
What kind of assigment do you wish to do ?
Value
An Expression
Another Data Element
The Data Element - Symbol, belonging to a group called P001_msnStkInp is assigned a hard coded VALUE = IBM
Source Value
IBM
202
Comments:
If the Group, and the Data element is not present in the list, they can be created using the 'Define' buton. This brings up the Data Define wizard.
Child to current statement
Next to current statement

FIG. 20

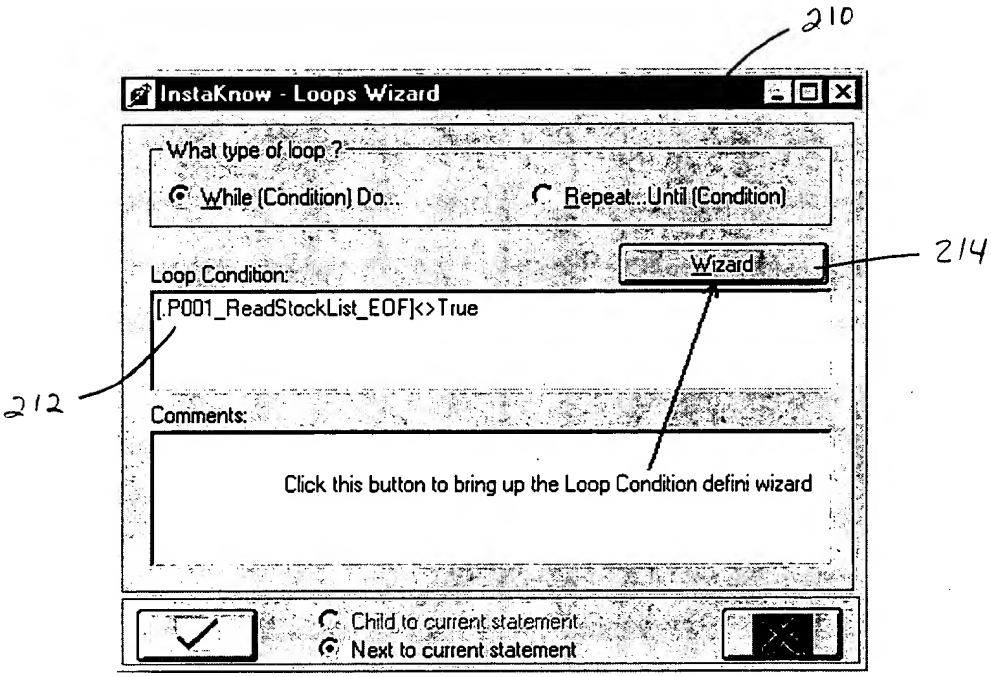

210
InstaKnow - Loops Wizard
What type of loop ?
While (Condition) Do...
Repeat...Until (Condition)
Wizard
214
Loop Condition:
[.P001_ReadStockList_EOF]<>True
212
Comments:
Click this button to bring up the Loop Condition defini wizard
Child to current statement
Next to current statement

FIG. 21

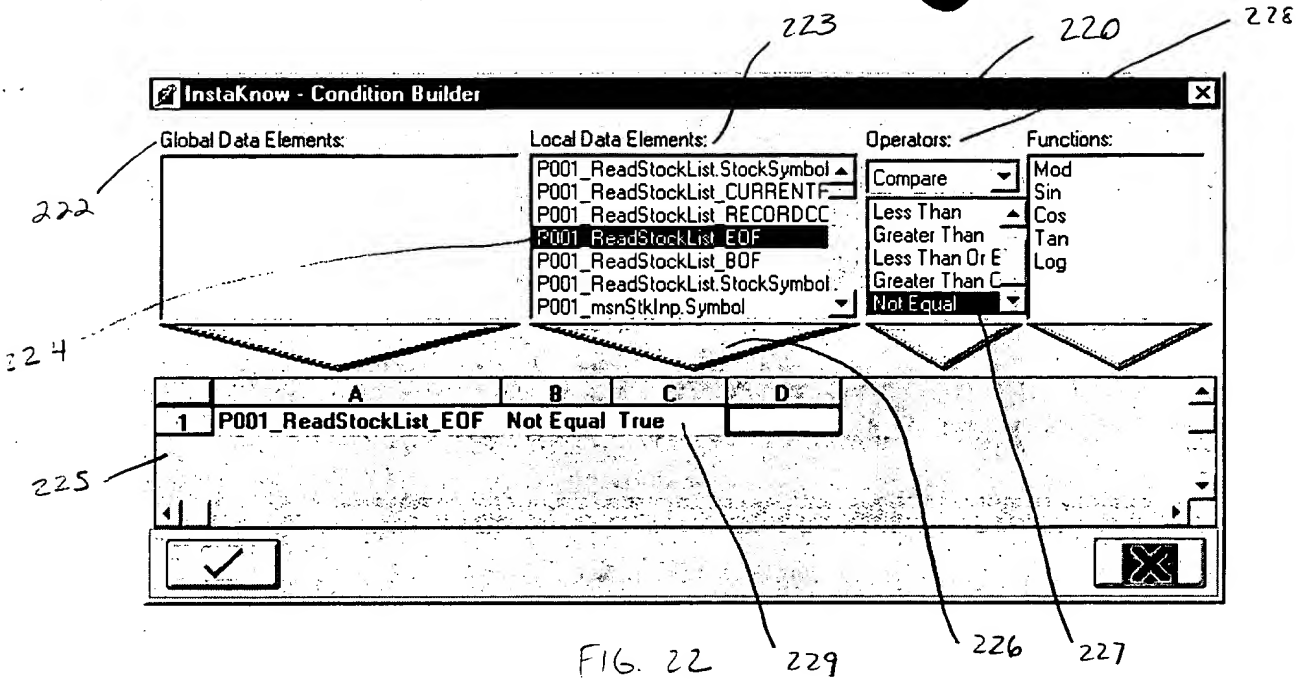

InstaKnow - Condition Builder
Global Data Elements:
Local Data Elements:
Operators:
Functions:
P001_ReadStockList.StockSymbol
P001_ReadStockList_CURRENTF
P001_ReadStockList_RECORDCC
P001_ReadStockList_EOF
P001_ReadStockList_BOF
P001_ReadStockList.StockSymbol
P001_msnStkInp.Symbol
Compare
Less Than
Greater Than
Less Than Or E
Greater Than C
Not Equal
Mod
Sin
Cos
Tan
Log
A
B
C
D
1
P001_ReadStockList_EOF
Not Equal
True
222
223
220
228
224
225
229
226
227

FIG. 22

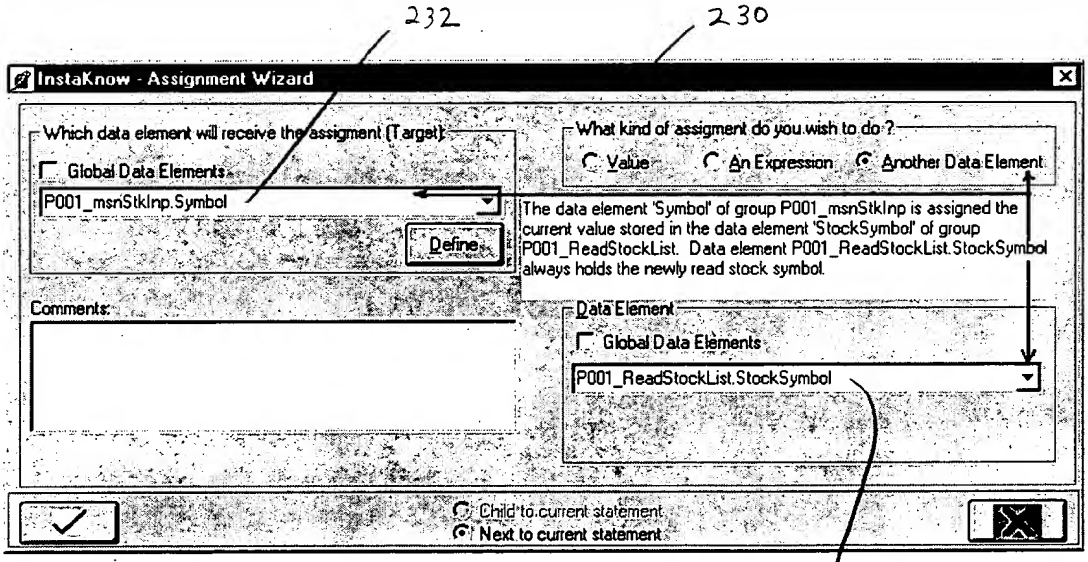

InstaKnow - Assignment Wizard
Which data element will receive the assigment (Target):
Global Data Elements
P001_msnStkInp.Symbol
Define
Comments:
What kind of assigment do you wish to do ?
Value
An Expression
Another Data Element
The data element 'Symbol' of group P001_msnStkInp is assigned the current value stored in the data element 'StockSymbol' of group P001_ReadStockList. Data element P001_ReadStockList.StockSymbol always holds the newly read stock symbol.
Data Element
Global Data Elements
P001_ReadStockList.StockSymbol
Child to current statement
Next to current statement
232
230
231

FIG. 23

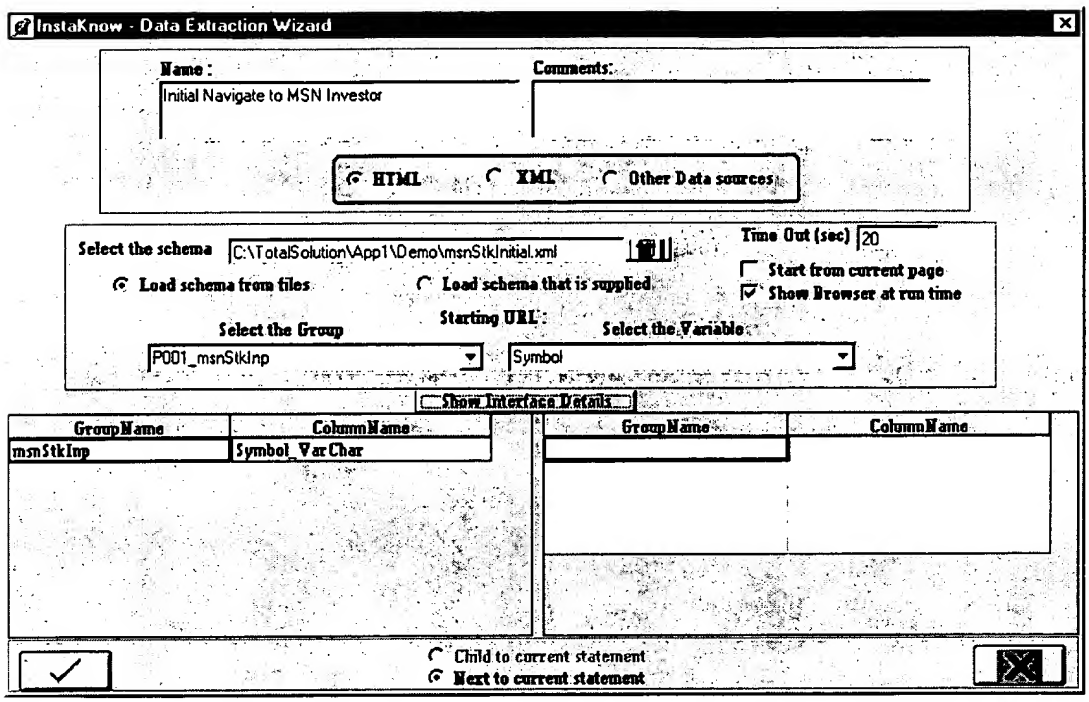

InstaKnow - Data Extraction Wizard
Name :
Initial Navigate to MSN Investor
Comments:
HTML
XML
Other Data sources
Select the schema
C:\TotalSolution\App1\Demo\msnStkInitial.xml
Load schema from files
Load schema that is supplied
Time Out (sec)
20
Start from current page
Show Browser at run time
Starting URL:
Select the Group
P001_msnStkInp
Select the Variable
Symbol
Show Interface Details
GroupName
ColumnName
msnStkInp
Symbol_VarChar
GroupName
ColumnName
Child to current statement
Next to current statement

FIG. 24

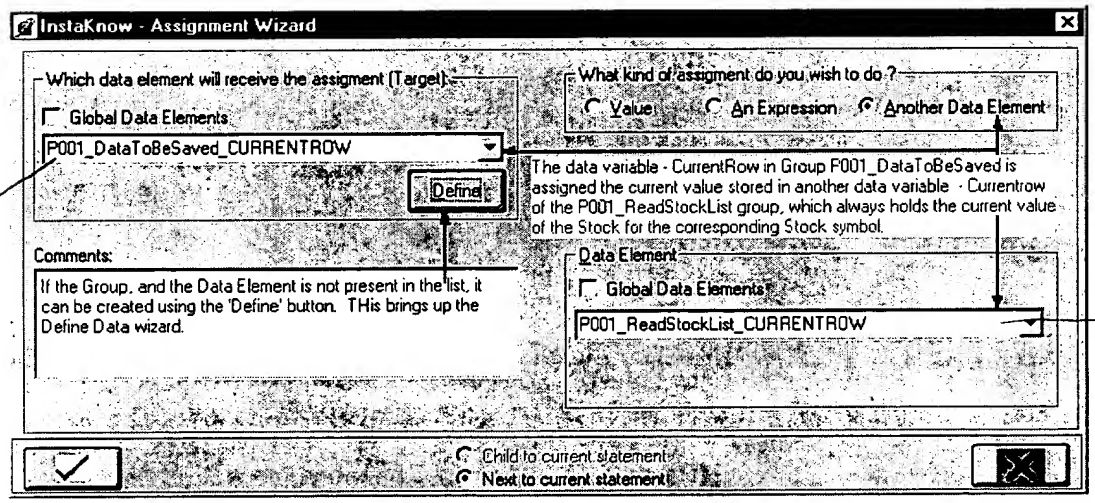

InstaKnow - Assignment Wizard
Which data element will receive the assignment (Target)
Global Data Elements
P001_DataToBeSaved_CURRENTROW
Define
Comments:
If the Group, and the Data Element is not present in the list, it can be created using the 'Define' button. THis brings up the Define Data wizard.
What kind of assignment do you wish to do ?
Value
An Expression
Another Data Element
The data variable - CurrentRow in Group P001_DataToBeSaved is assigned the current value stored in another data variable - Currentrow of the P001_ReadStockList group, which always holds the current value of the Stock for the corresponding Stock symbol.
Data Element
Global Data Elements
P001_ReadStockList_CURRENTROW
Child to current statement
Next to current statement
254
252

FIG 25

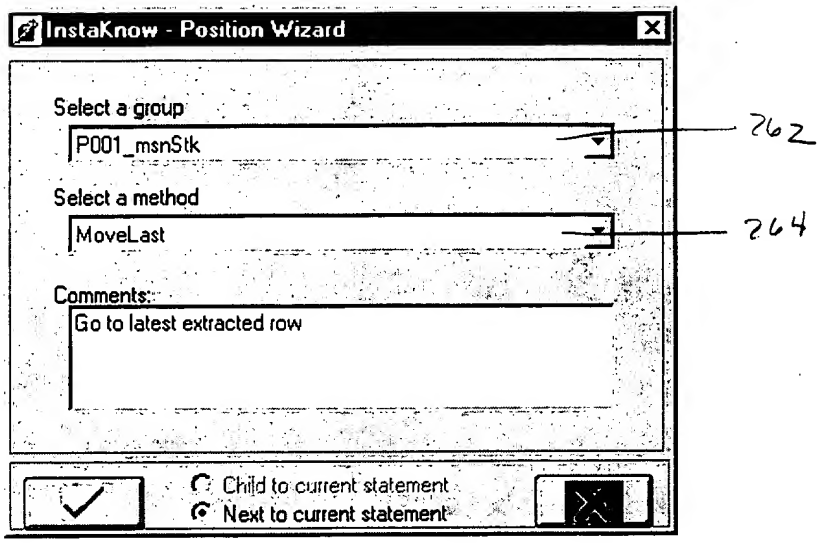


FIG. 26

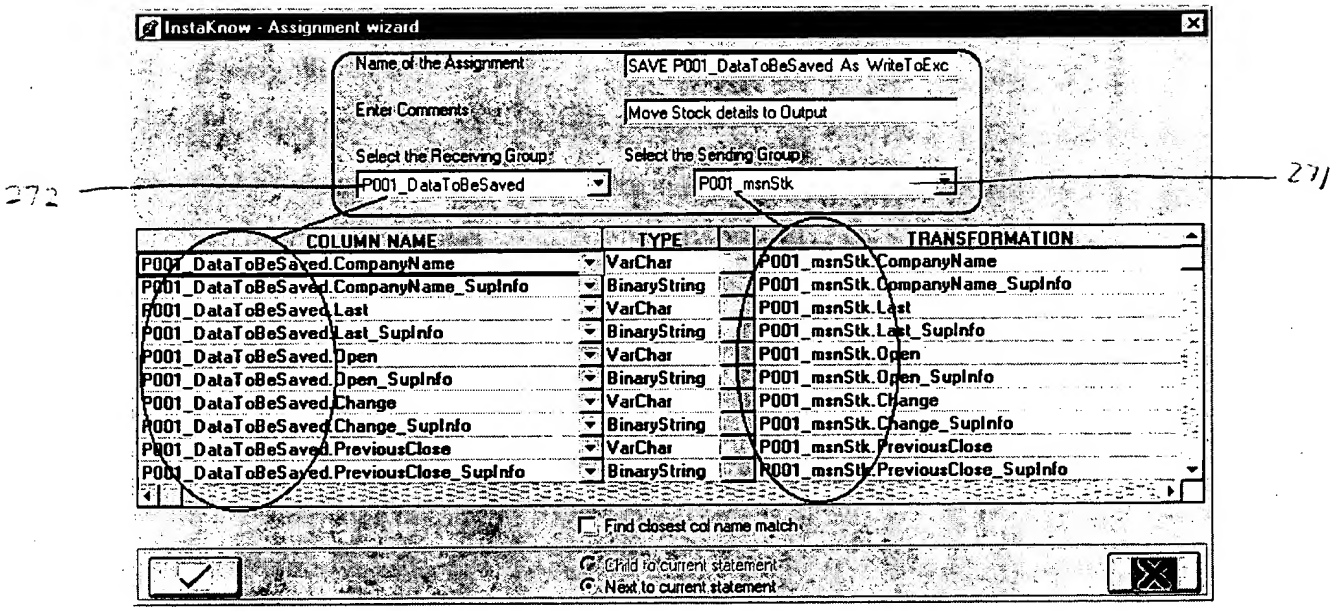


FIG 27

DOCKET ALARM

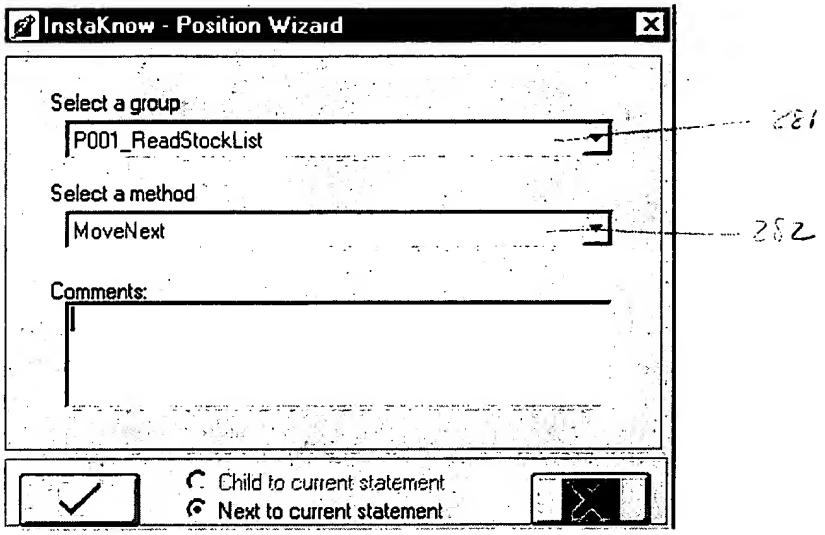

InstaKnow - Position Wizard
Select a group
P001_ReadStockList
Select a method
MoveNext
Comments:
Child to current statement
Next to current statement
281
282

FIG. 28

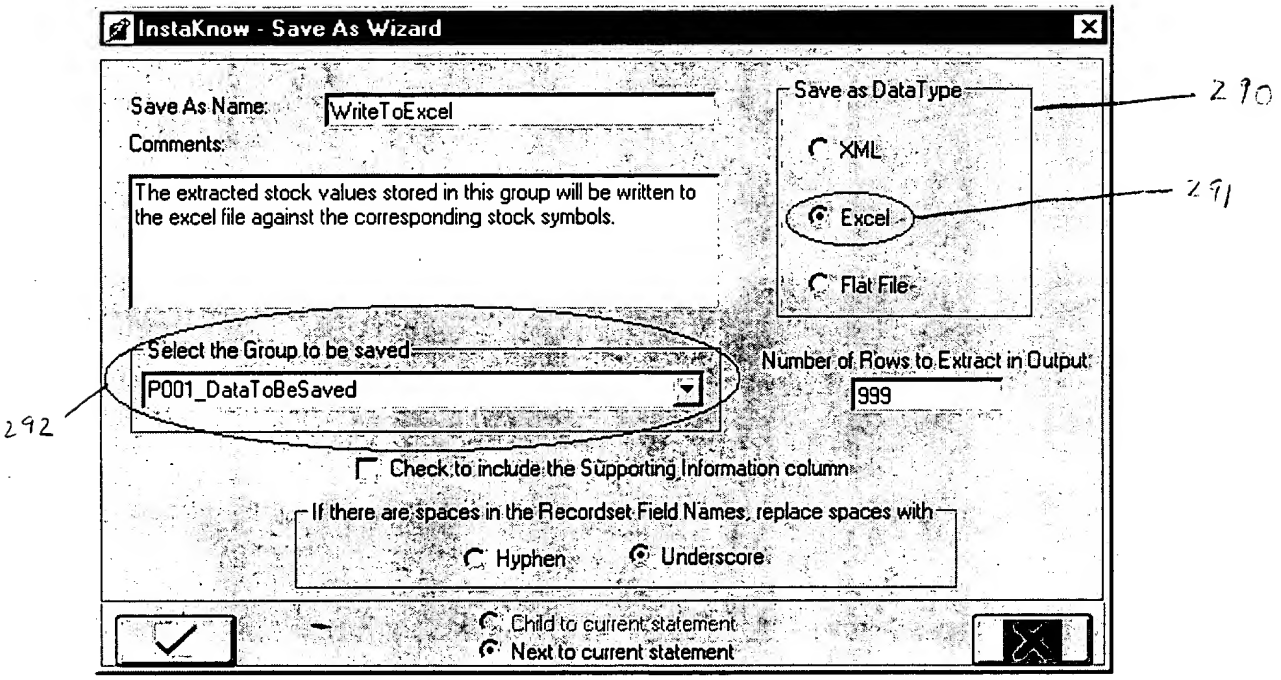

InstaKnow - Save As Wizard
Save As Name:
WriteToExcel
Comments:
The extracted stock values stored in this group will be written to the excel file against the corresponding stock symbols.
Save as DataType
XML
Excel
Flat File
Select the Group to be saved
P001_DataToBeSaved
Number of Rows to Extract in Output:
999
Check to include the Supporting Information column
If there are spaces in the Recordset Field Names, replace spaces with
Hyphen
Underscore
Child to current statement
Next to current statement
290
291
292

FIG. 29

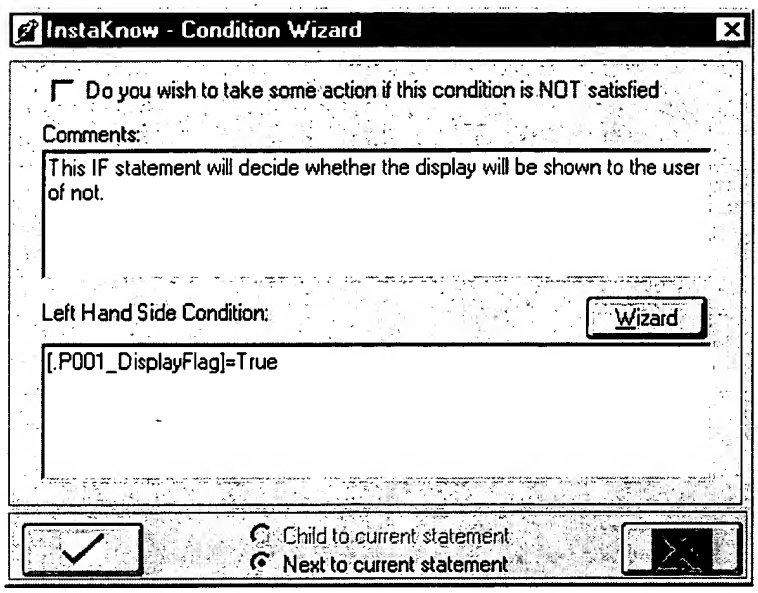
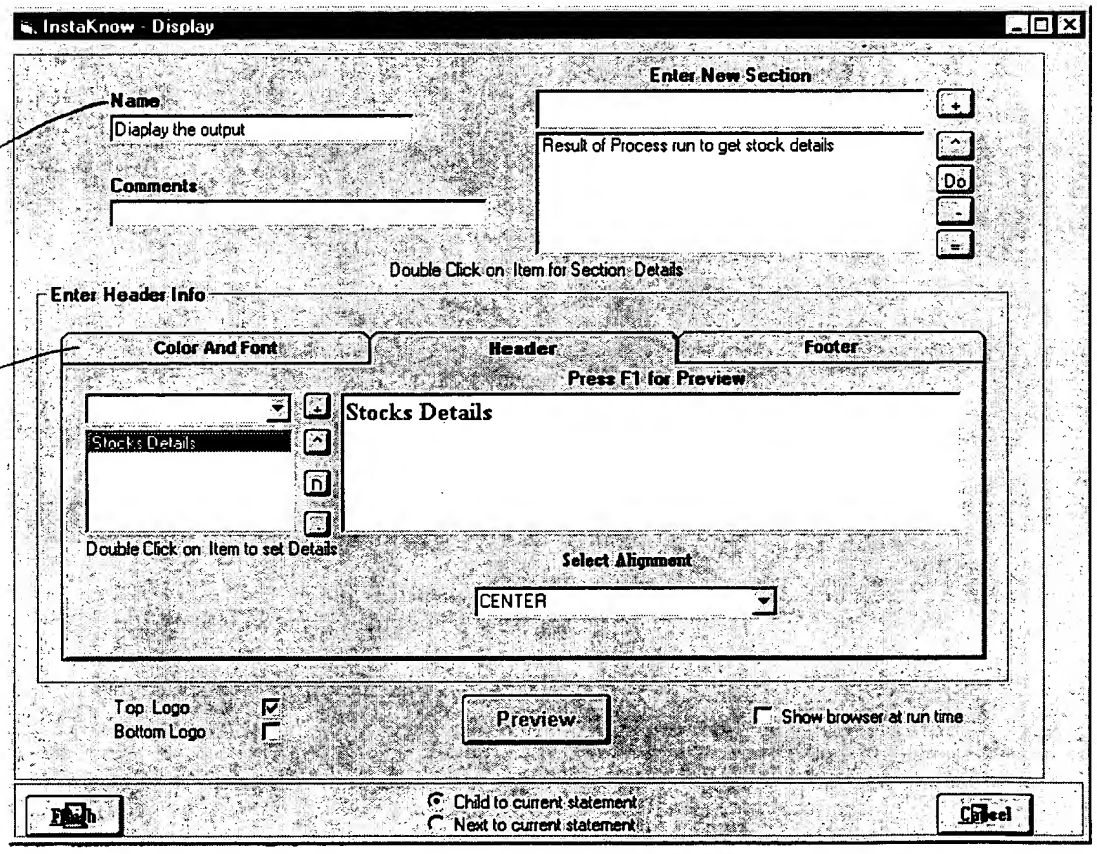


FIG. 30



311

312

FIG. 31

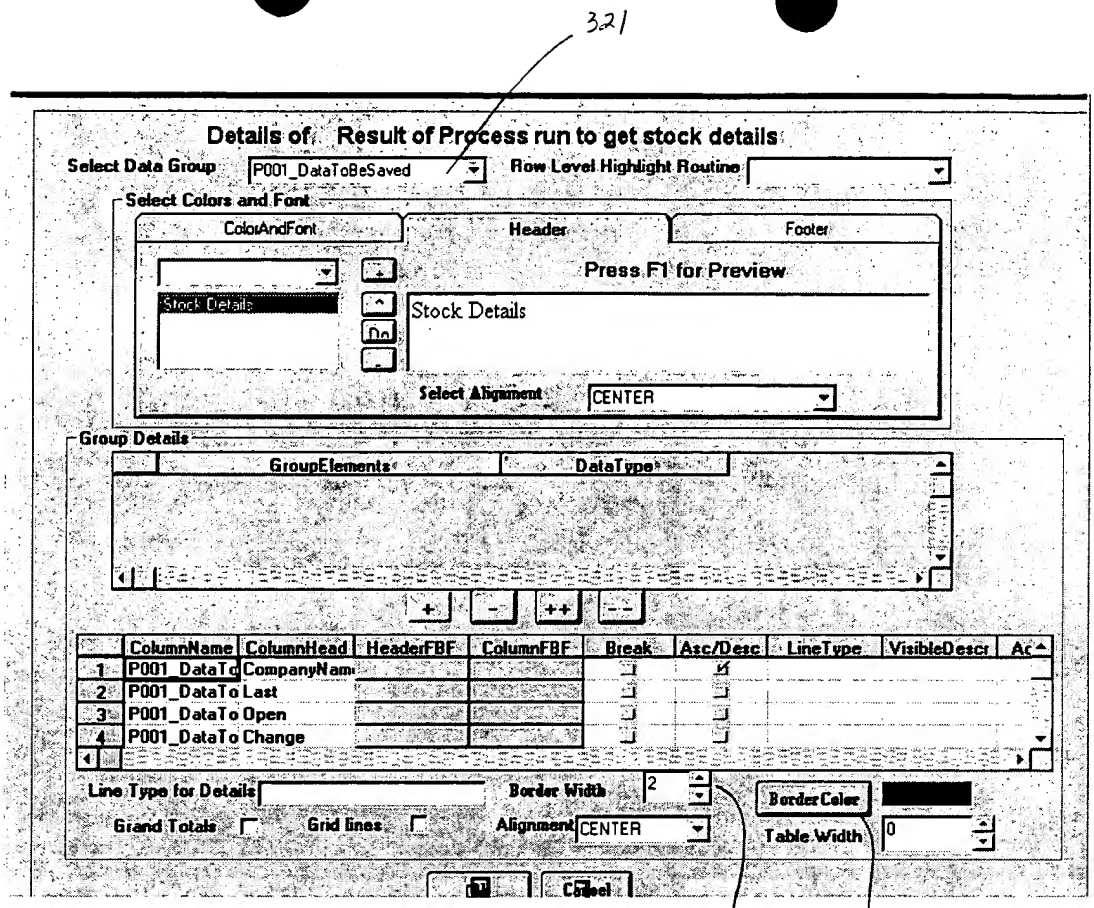
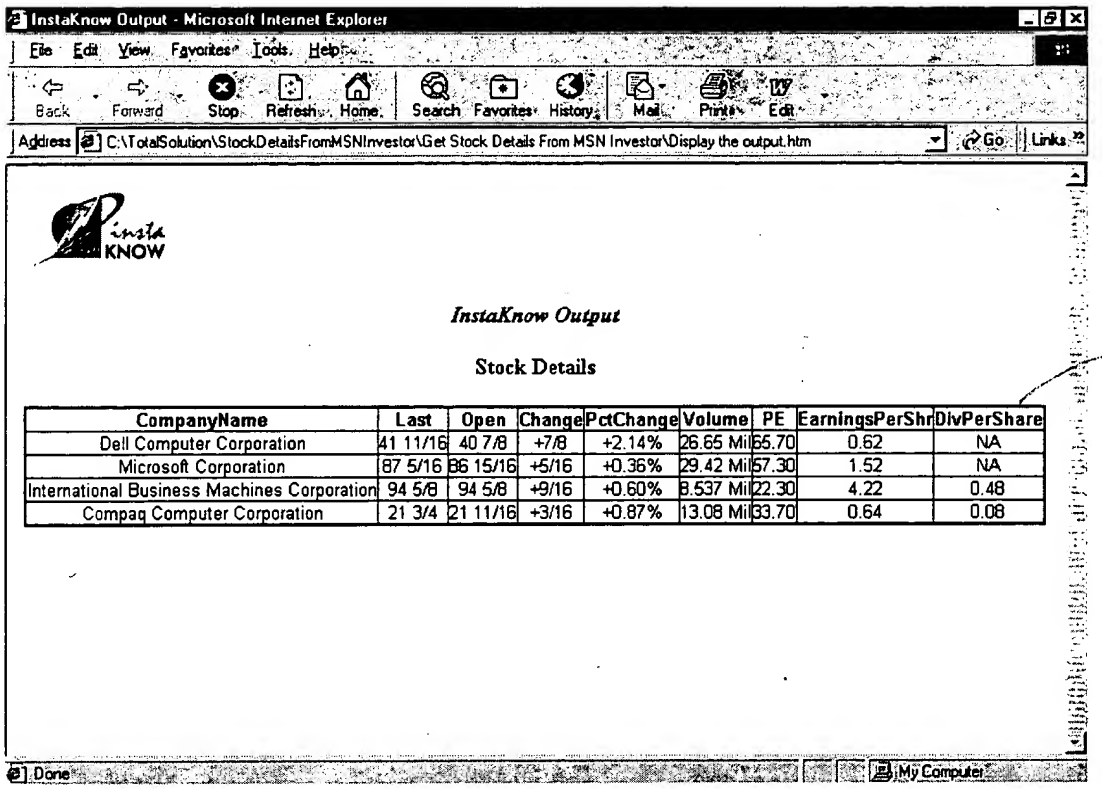

321
Details of Result of Process run to get stock details
Select Data Group
P001_DataToBeSaved
Row Level Highlight Routine
Select Colors and Font
ColorAndFont
Header
Footer
Press F1 for Preview
Stock Details
Stock Details
Select Alignment
CENTER
Group Details
GroupElements
DataType
ColumnName
ColumnHead
HeaderFBF
ColumnFBF
Break
Asc/Desc
LineType
VisibleDescr
1 P001_DataTo CompanyNam
2 P001_DataTo Last
3 P001_DataTo Open
4 P001_DataTo Change
Line Type for Details
Border Width
2
BorderColor
Grand Totals
Grid lines
Alignment
CENTER
Table Width
0
Cancel
324
325

FIG. 32



CompanyName	Last	Open	Change	PctChange	Volume	PE	EarningsPerShr	DivPerShare
Dell Computer Corporation	41 11/16	40 7/8	+7/8	+2.14%	26.65 Mil	55.70	0.62	NA
Microsoft Corporation	87 5/16	86 15/16	+5/16	+0.36%	29.42 Mil	57.30	1.52	NA
International Business Machines Corporation	94 5/8	94 5/8	+9/16	+0.60%	8.537 Mil	22.30	4.22	0.48
Compaq Computer Corporation	21 3/4	21 11/16	+3/16	+0.87%	13.08 Mil	33.70	0.64	0.08

FIG. 33

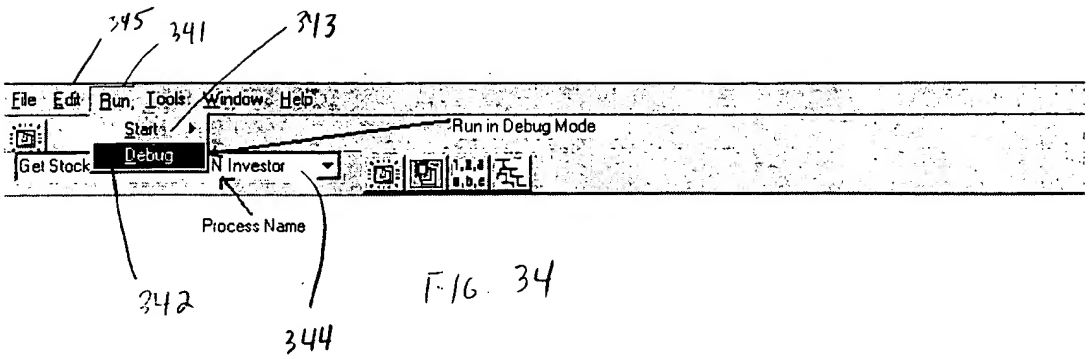

345
341
313
File Edit Run Tools Window Help
Start
Debug
Run in Debug Mode
Get Stock
N Investor
Process Name
342
344

FIG. 34

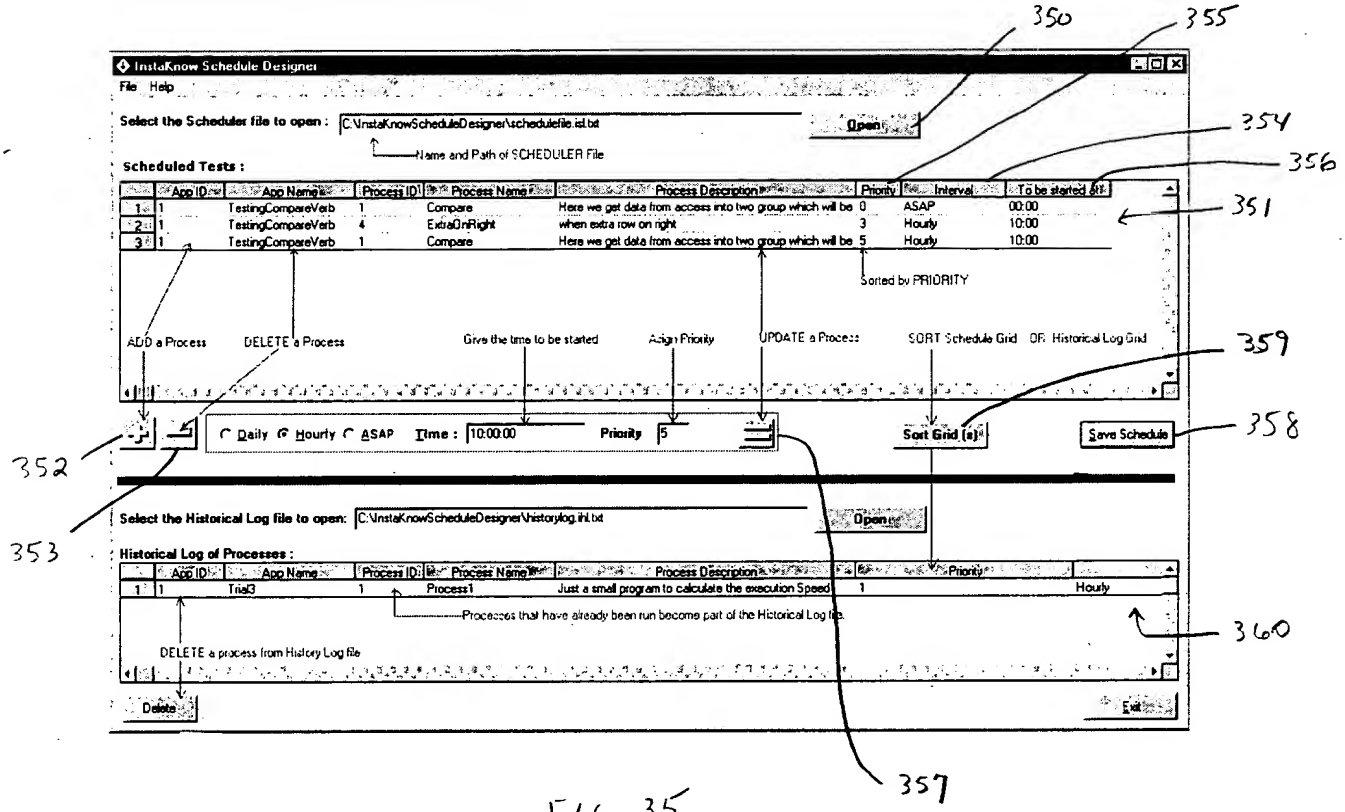

350
355
InstaKnow Schedule Designer
File Help
Select the Scheduler file to open :
C:\InstaKnowScheduleDesigner\schedulefile.ist.txt
Open
Name and Path of SCHEDULER File
354
356
Scheduled Tests :
App ID | App Name | Process ID | Process Name | Process Description | Priority | Interval | To be started at
1 | 1 | TestingCompareVerb | 1 | Compare | Here we get data from access into two group which will be | 0 | ASAP | 00:00
2 | 1 | TestingCompareVerb | 4 | ExtraOnRight | when extra row on right | 3 | Hourly | 10:00
3 | 1 | TestingCompareVerb | 1 | Compare | Here we get data from access into two group which will be | 5 | Hourly | 10:00
351
Sorted by PRIORITY
ADD a Process
DELETE a Process
Give the time to be started
Assign Priority
UPDATE a Process
SORT Schedule Grid OR Historical Log Grid
359
Daily Hourly ASAP Time : 10:00:00 Priority 5
Sort Grid (s)
Save Schedule
358
352
353
Select the Historical Log file to open:
C:\InstaKnowScheduleDesigner\historylog.inl.txt
Open
Historical Log of Processes :
App ID | App Name | Process ID | Process Name | Process Description | Priority
1 | 1 | Trial3 | 1 | Process1 | Just a small program to calculate the execution Speed | 1 | Hourly
Processes that have already been run become part of the Historical Log file
360
DELETE a process from History Log file
Delete
Exit
357

FIG. 35

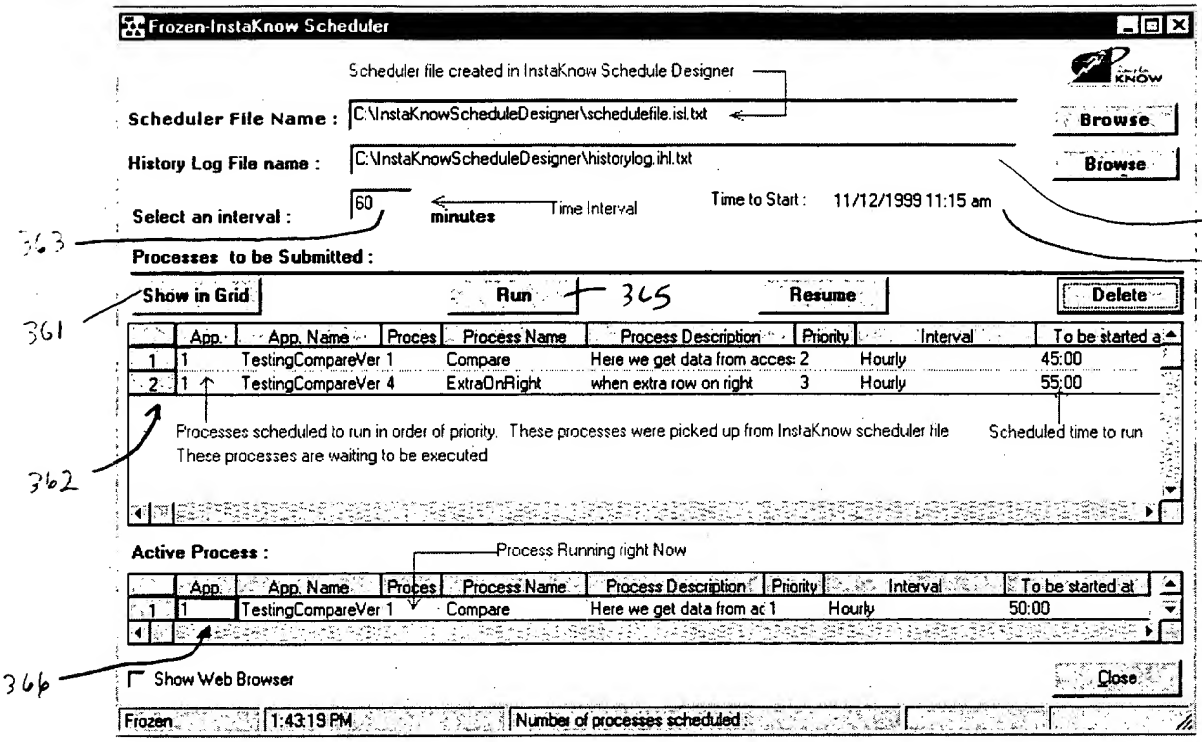


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FIG. 36